

CURRICULUM VITAE

Mohammad S. Obaidat, Fellow of IEEE and Fellow of SCS

CONTACT INFO:

*Professor Dr. Mohammad S. Obaidat
Full Professor, Department of Computer Science
King Abdullah II School of Information Technology (KASIT)
University of Jordan, Amman, Jordan
E-mail: m.sobaidat@ieee.org; msobaidat@gmail.com*

EDUCATION:

Ph.D. in Computer Engineering with Minor in Computer Science, Department of Electrical and Computer Engineering, Ohio State University, Columbus, OH 43210, USA, June 1986.

M.S. in Computer Engineering, Department of Electrical and Computer Engineering, The Ohio State University, Columbus, OH 43210, USA.

B.S.E.E. in Electrical Engineering with distinction (Third out of 240 Engineering graduates) Aleppo University.

HONORS, AWARDS AND , RECOGNITIONS

- Fellow, The Institute of Electrical and Electronics Engineers, IEEE
- Fellow, The Society for Modeling and Simulation International, SCS
- Fulbright Distinguished Award, 2004/2005
- President, The Society for Modeling and Simulation International, SCS (2009-2011).
- Chair of the Board of Directors, The Society for Modeling and Simulation International, SCS (2009-2011).
- Received in 2014 the Life Time Achievement SCS **Hall of Fame Award** for the exceptional technical contribution to modeling and simulation and for the outstanding visionary leadership and dedication to increasing the effectiveness and broadening the applications of modeling and simulation worldwide.
- Honorary Distinguished Professor, The Amity University- A Global Research University with campuses all over the World in cities such as London, New York, Singapore, Delhi/Noida, Kolkata, Dubai, Hyderabad, Chennai, Mumbai, Bangalore, Jaipur, Abu Dhabi, Mauritius, China etc.
- Member of the 2015 IEEE Computer Society (CS) Fellows Evaluation Committee

- Received in 2012 the Prestigious SCS **Presidential Award** for the outstanding unique, long-term technical contributions and services to the profession and society.
- Received in 2009 the Prestigious SCS **McLeod Founder's Award** in recognition of the outstanding technical and professional contributions to modeling and simulation.
- Received in 2009 the **Best Paper Award** on the research paper titled “Cross-Layer Based Data in Mobile Ad Hoc Networks, Proceedings of the 2009 IEEE GLOBECOM 2009 Conference.
- Received in 2009 the **Best Paper Award** on the research paper titled “Adaptive Learning System For Congestion Avoidance in Wireless Sensor Networks,” presented and published in the Proceedings of the IEEE International Conference on Computer Systems and Applications, AICCSA 2009.
- Best Paper Award, IEEE 2011 IEEE International Conference on Data Communication Networking, (DCNET 2011)
- Received in 2010 the IEEE Communications Society’s Outstanding Leadership Award for Distinguished contribution and leadership to IEEE GLOBECOM-Communication Software, Services, and Multimedia Applications (CSSMA) Symposium.
- Received the Outstanding Leadership Award from the IEEE International Conference on Internet of Things (iThings 2011).
- Received in 2011 the FTRA Outstanding Leadership Award for Distinguished contribution and leadership to the 3rd FTRA International Conference on Computer Science and Its Applications (CSA 2011).
- Received the Certificate of Honor and Appreciation from 2011 IEEE Asia-Pacific Services and Computing Conference (APSCC 2011).
- Received the IEEE Outstanding Leadership Award for outstanding leadership on the success of 14th IEEE International Conference on Computer and Information Technology, CIT 2014, Sep 2014.
- Received the **Best Paper Award** from the 2013 IEEE International Conference on Data Communication Networking, DCNET 2011 on the research paper entitled: “Computational Intelligence Applied to Wildfire Prediction using Wireless Sensor Networks
- Received the **Best Paper Award** from 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, 2013 on the research paper

entitled: “Learning Automata Based Sentiment Analysis for Recommender System on Cloud.”

- Best Paper Award, IEEE 2015 IEEE International Conference on Computer, Information and Telecommunications Systems, (CITS 2015) on the research paper entitled: “Learning Automaton based Context Oriented Middleware Architecture for Precision Agriculture”.
- Best Paper Award, IEEE 2016 IEEE International Conference on Computer, Information and Telecommunications Systems, (CITS 2016) on the research paper entitled: “A Min-Actor Algorithm for Connected Dominating Set Formation in WSN”
- Nominated Three Times for the Monmouth University Distinguished Teaching Award.
- Editor-in-Chief, International Journal of Communication Systems, Wiley, October 1997-Present.
- Editor-in-Chief, Journal of Convergence, FTRA, 2010-Present.
- Editor-in-Chief, Journal of Information Processing, KIPS, 2011-Present.
- Editor, IEEE Wireless Communications.
- Served as the Advisor of the President of Philadelphia University for Research, Development and Information Technology to the President of Philadelphia University, Dr. Adnan Badran who became the Prime Minister of Jordan in April 2004, Jordan (2004/2005).
- Advisory Editor, Editor, and Associate Editor of many International Journals and Transactions.
- Advisor for the President of Al-Balq’ Applied University (BAU) and Designer of the Software Engineering, Computer Engineering and Computer System Engineering curricula for BAU, 2004-2005.
- Member of the International Advisory Board, Hashemite University, Jordan.
- Member of the Advisory Board, Faculty of Information Technology Hashemite University, Jordan.
- Consultant for the President of the University of Jordan on Curricula for the Faculty of Information Technology and Department of Computer Engineering, 2004.
- Senior Vice President, The Society for Modeling and Simulation International, SCS (2006-2009)

- Vice President of Membership, The Society for Modeling and Simulation International, SCS (2004-Present)
- Vice President of Conferences, The Society for Modeling and Simulation International, SCS (2002-2004)
- B.S.EE with Distinction, 3rd out of 240 Engineering Students.
- Royal Endowment for Culture and Education (RECE) Scholarship to obtain M.S. and Ph.D. from The Ohio State University, Columbus, Ohio.
- IEEE Recognition Certificate for Contribution to IEEE Computer Society.
- SCS Recognition Certificate for Contribution to The Society for Computer Simulation.
- IEEE Recognition Certificate for Contribution to IPCCC Conference.
- Listed in numerous Who's Who listings such as Who is Who in Science and Engineering, Who's Who in the World, the 5,000 Personalities of the World, the Dictionary of International Biography, the Directory of Distinguished Leadership, Who is Who in America, Men of Achievement, Who's Who in the East, International Who's Who of Professionals, International Who's Who of Contemporary Achievements, Outstanding People of the 20th Century, Man of the Year, Who is Who in Information Technology, Research Board Advisor, 2000 Outstanding Scholars of the 20th Century, Who's Who in the 21st Century, among others.
- Listed among Famous Arab Americans- Arab American Scientists; see Wikipedia.
- Distinguished Speaker, IEEE Computer Society, 1995-1998.
- Steering Committee Chair, 1995 IEEE International Conference on Electronics, Circuits and Systems, ICECS'95.
- Technical Program Chair, 1995 IEEE International Conference on Electronics, Circuits and Systems, ICECS'95.
- Program Chair, 1996 IEEE International Phoenix Conference on Computers and Communications, IPCCC'96.
- Vice Chair, 1997 IEEE International Performance, Computing and Communications Conference, IPCCC'97.
- Vice Program Chair, 1997 IEEE International Conference on Computer Communications and Networks, IC3N'97.

- General Chair and Program Co-Chair, 1997 Summer Computer Simulation Conference, SCSC'97.
- General Co-Chair, 1998 IEEE International Performance, Computing and Communications Conference, IPCCC'98.
- General Chair, 1998 Summer Computer Simulation Conference, SCSC'98.
- General Founding Chair, 1998 IEEE/SCS Symposium on Performance of Computer and Telecommunication Systems, SPECTS'98.
- Panel Chair, 1998 IEEE International Conference on Computer Communications and Networks, IC3N'98.
- Advisory Committee Member, IEEE International Performance, Computing and Communications Conference, IPCCC'99, and IPCCC'2k.
- Steering Committee Member, Summer Computer Simulation Conference.
- ACM Distinguished Lecturer, 1996-Present.
- IEEE Computer Society Distinguished Speaker, 1994-1997.
- IEEE Communication Society Distinguished Speaker, 2012-Present.
- Member of the Computing Sciences Accreditation Board/Commission (CSAB/CSAC), 1996-1999.
- Member, Board of Directors, the Society for Computer Simulation International; 1995-2002.
- General Chair, 1999 Summer Computer Simulation Conference, SCSC'99.
- General Chair and Steering Committee Chair, Symposium on Performance Evaluation of Computer and Telecommunication Systems, from 1999-Present.
- Associate Vice President for Conferences, The Society for Computer Simulation International.
- Steering Committee Chair, 2000 Summer Computer Simulation Conference, SCSC'00.
- Vice Chair, 2001 International Conference on Parallel Processing, ICPP-01.
- Steering Committee Chair, Summer Computer Simulation Conference, SCSC'01.

- Member, International Advisory Board, 2001 IEEE Malaysian International Conference on Communications, MICC2001.
- Advisor, UN 2002 Digital Inclusion Workshop-The Role of Information and Communications Technology.
- Distinguished Lecturer of ACM, 1995-Present.
- Distinguished Lecturer of SCS, 2005-Present.
- *Chair, International Advisory Committee, 2003 and 2007 IEEE International Conference on Electronics, Circuits and Systems, ICECS2003, and ICECS 2007.*
- *General Chair, IEEE 2005 International Conference on Electronics, Circuits and Systems, ICECS 2005, Tunis, Tunisia, Dec 2005.*
- Honorary General Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2006, Setubal, Portugal.
- General Chair, 2006 International Symposium on Ad hoc and Ubiquitous Computing (ISAHUC 2006), Surathkal, Mangalore, India, December 2006.
- General Chair, IEEE International Conference on Computer Systems and their Applications, AICCSA 2007, Amman, Jordan.
- General Co-Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2007, Barcelona, Spain, July 2007.
- Program Co-Chair, IEEE International Conference on Wireless Information Systems and Networks, WINSYS 2007.
- General Co-Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2008, Porto, Portugal, July 2008.
- Program Co-Chair, IEEE International Conference on Wireless Information Systems and Networks, WINSYS 2008.
- Evaluator for the Computer Science Program at the Islamic International University-Malaysia (IIUM), 2007.
- Steering Committee Member, International Symposium on Multimedia – Applications and Processing, MMAP; 2008-Present.
- Steering Committee Member, IEEE/ACS International Conference on Computer Systems and Applications, AICCSA.

- General Co-Chair, Intentional Workshop on Broadband Wireless Internet Access (BWIA 2008), Avignon, France, October 2008.
- General Co-Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2009, Milan, Italy, 2009.
- General Chair, IEEE International Conference on Computer Systems and Applications, Rabat, Morocco, AICCSA 2009, May 2009.
- Steering Committee Member, The 3rd IEEE International Workshop on Web and Pervasive Security (WPS 2009) Held in Conjunction with Percom 2009, Galveston, Texas, USA, 9-13 March, 2009
- General Co-Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2008, Porto, Portugal, 2008.
- Steering Committee Member, 2008 International Symposium on Modeling, Assembly and Management for Service Oriented Engineering (MamSOE 2008), Dec 2008.
- General Co-Chair, IEEE International Joint Conference on E-Business and Telecommunications, ICETE 2008, Porto, Portugal, 2008.
- Steering Committee Chair, International Conference on Information Technology, ICIT 2009, Amman, Jordan.
- General Co-Chair, IEEE GLOBCOM 2010 Communications Software, Services, and Multimedia Applications, (CSSMA 2010) Symposium.
- General Chair, 2010 IEEE International Conference on Telecommunications and E-Business, 0, Athens, Greece.
- Program Chair, 2010 IEEE International Conference on International Conference on Wireless Information Networks and Systems, WINSYS 2010, Athens, Greece.
- Program Chair, 2010 IEEE International Conference on International Conference on Data Communication Networking, DCNET 2010, Athens, Greece.
- Vice Chair, The 24th IEEE International Conference on Advanced Information Networking and Applications (AINA 2010), Perth, Western Australia, April 2010.
- Member of International Advisory Board, 2010 IFIP International Conference on Wireless Communications and Information Technology in Developing Countries, WCITD 2010.

- Honorary Conference Chair and Chair of the Advisory Committee, 2010 International Conference on Wireless Information Networks and Business information System, WINBIS 2010.
- Steering Committee Member, 2010 IEEE International Symposium on Wireless and Pervasive Computing (ISWPC).
- Member of International Advisory Board, IEEE GLOBECOM 2010 Workshop on Web and Pervasive Security
- General Chair, 2011 IEEE International Conference on Telecommunications and E-Business, ICETE 2011, Seville, Spain.
- Program Chair, 2011 IEEE International Conference on International Conference on Wireless Information Networks and Systems, WINSYS 2011, Seville, Spain, 2011.
- Program Chair, 2011 IEEE International Conference on International Conference on International Conference on Data Communication Networking, DCNET 2011, Seville, Spain, 2011.
- Member of International Advisory Board, FTRA 2011 International Conference on International Technology Convergence and Services (ITCS 2011).
- Honorary Conference Chair and Steering Committee Chair, 2011 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2011.
- Chair of the International Advisory Committee, 2011 International Conference on Information Technology, ICIT 2011.
- Member of International Advisory Board, Future Technology Research Association, FTRA, 2009-Present.
- Member of International Advisory Board of Human-centric Computing and Information Sciences Journal, Springer, 2010-Present.
- Member of the Steering Committee of the IEEE Australasian Telecommunication Networks and Applications (ATNAC 2011) conference.
- Chair, Steering Committee of the 2011 International Conference on Computer Science and its Applications (CSA-11), Jeju, South Korea, 2011.
- General Co-Chair, 2011 FTRA International World Convergence Conference (FTRA WCC 2011), South Korea, 2011.

- Founder and Steering Committee Chair, IEEE International Conference on Computer, Information and Telecommunication Systems, CITS.
- General Chair, 2012 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2012, Amman, Jordan.
- Founder and Steering Committee Chair, IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS. 1998-Present.
- General Chair, IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS, 1998-2009.
- Honorary General Chair, IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS, 2009-Present.
- Received the IEEE Communications Society's Outstanding Leadership Award for Distinguished Contribution and Leadership to IEEE GLOBECOM-Communication Software, Services, and Multimedia Applications (CSSMA) Symposium, Dec 2012.
- Member of the Advisory Board of the College of Information Technology, Hashemite University, Jordan, 2011-Present.
- International Advisor, National Center for the Security and Assurance of Information and Communications Systems, Hashemite University, Jordan, 2011.

International Advisor, National Center for Micro Systems, Hashemite University, Jordan, 2011.

Received the Best Paper Award from the IEEE International Conference on Data Communication Networking, DCNET 2011; paper title: "COMPUTATIONAL INTELLIGENCE APPLIED TO WILDFIRE PREDICTION USING WIRELESS SENSOR NETWORKS."

General Chair, 2012 IEEE International Conference on Telecommunications and E-Business, ICETE 2012, Rome, Italy.

Program Chair, 2012 IEEE International Conference on International Conference on Wireless Information Networks and Systems, WINSYS 2012, Rome, Italy.

Program Chair, 2012 IEEE International Conference on International Conference on International Conference on Data Communication Networking, DCNET 2012, Rome, Italy, 2012.

General Chair, 2012 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Rome, Italy, July 2012.

Honorary General Chair, 2012 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2012, Genoa, Italy 2012.

Honorary Conference Chair, Asia Simulation Conference (AsiaSim'2012) and the International Conference on System Simulation and Scientific Computing (ICSC'2012), October 2012, Shanghai, China.

Chair, International Advisory Board, The 2012 FTRA International Conference on Advanced IT, engineering and Management (AIM-12), Seoul, Korea, Feb. 6-8, 2012.

Steering Committee Member, 2012 FTRA World Convergence Conference (FTRA WCC 2012), Jeju, Korea, Nov 2012.

Steering Committee Chair, 2012 International Conference on Ubiquitous Information Technologic & Applications, CUTE 2012, Hong Kong, China, Dec 2012.

Advisory Committee Chair, 2012 IEEE International Conference on Internet of Things, iThings 2012, Besançon, France, September 2012

General Chair, 12th IEEE International Conference on Scalable Computing and Communications, (ScalCom-2012), December, 2012, Changzhou, China

General Chair, 2013 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Reykjavik, Iceland, July 2013.

- General Chair, 2013 IEEE International Conference on Telecommunications and E-Business, ICETE 2013, Reykjavik, Iceland, July 2013.

- Program Chair, 2013 IEEE International Conference on International Conference on Wireless Information Networks and Systems, WINSYS 2013, Reykjavik, Iceland, July 2013.

- Program Chair, 2013 IEEE International Conference on International Conference on Data Communication Networking, DCNET 2013, Reykjavik, Iceland, July 2013.

- General Chair, 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Piraeus-Athens, Greece, may 2013.

- Honorary General Chair, 2013 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2013, Toronto, Canada, 2013.
- General Co-Chair, 10th FTRA International Conference on Secure and Trust Computing, data management, and Applications (STA 2013), Fukouka, Japan, July, 2013.
- Member, International Advisory Board, Hashemite University, Jordan, 2012-Present.
- General Chair, 12th IEEE International Conference on Scalable Computing and Communications, (ScalCom-2012), Changzhou, China, Dec 2012.
- Steering Committee Chair, 2013 FTRA International Conference on Computer Science and its Applications (CSA-14)
- General Chair, 2014 IEEE International Conference on Telecommunications and E-Business, ICETE 2014, Vienna, Austria, August 2014.
- Honorary General Chair, 2014 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2014, Monterey, CA, USA.
- General Chair, 2014 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Vienna, Austria, August 2014.
- General Chair, 2014 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2014, Jeju Island, South Korea, July 2014.
- General Chair, 2014 IEEE International Conference on Computer and Information Technology (CIT 2014), Xi'an, China, September 2014.
- Steering Committee Member/Organizing Committee Member, The 2014 International Conference on Computational Science and Computational Intelligence (CSCI'2014)
- Vice Chair, 2014 IEEE International Conference on Parallel and Distributed Systems, ICPDS 2014, Dec 2014, Hsinchu, Taiwan
- General Chair, 2015 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Colmar, France, July 2015.

- Honorary General Chair, 2015 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2015, Chicago, IL, USA, July 2015.
- General Chair, 2015 IEEE International Conference on Telecommunications and E-Business, ICETE 2015, Colmar, France, 2015.
- General Chair, 2015 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2015, Gijon, Spain, July 2015.
- Steering Committee Member/Organizing Committee Member, The 2015 International Conference on Computational Science and Computational Intelligence (CSCI'2015).
- General Chair, 2015 IEEE International Conference on Internet of Things, Sydney, Australia, iTHINGS 2015, Dec 2015.
- Honorary Program Chair, IPAC'2015 International conference
- Advisory Board Member, 2015 International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2015).
- General Chair, 2017 International Conference on Platform Technology and Service
- Honorary General Chair, 2016 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2015, Montreal, Canada, July 2016.
- General Chair, 2016 IEEE International Conference on Telecommunications and E-Business, ICETE 2016, Lisbon, Portugal, 2016.
- General Chair, 2016 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2016, Kunming, China, July 2016.
- General Chair, 2016 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Lison, Portugal, 2016.
- General Chair, 2017 International Conference on Platform Technology and Service, Busan, Korea, Feb 2017.
- Honorary General Chair, 2017 IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2017, Seattle, USA, July 2017.
- General Chair, 2017 IEEE International Conference on Telecommunications and E-Business, ICETE 2017, Madrid, Spain 2017.
- General Chair, 2017 IEEE International Conference on Computer, Information and

Telecommunication Systems, CITS 2017, Dalian, China, July 2017.

- General Chair, 2017 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Madrid, Spain, 2017.
- Program Chair, IEEE International Conference on Mathematics and Computing, Hadia, India, Jan 2017.
- Advisory Board Member, 2017 International Conference on Computing And Communication Technologies, 2017.
- General Chair, 2017 IEEE International Conference on Platform Technology and Service, PlatCon-2017, Busan, Korea, February 2017.
- Honor and Appreciation Award, PLatCon-17, 2017

EDITORSHIP:

- Editor-in-Chief, International Journal of Communication Systems, Wiley, October 1997-Present.
- Editor-in-Chief, Journal of Convergence, FTRA, 2010-Present.
- Editor-in-Chief, Journal of Information Processing, KIPS, 2011-Present.
- Editor, IEEE Wireless Communications.
- Editor, IET, Wireless Sensor Systems.
- Editor, Journal of Communications, The Academy Publisher, 2006-Present.
- Editor, Journal of Networks, The Academy Publisher, 2008-Present.
- Editor, International Journal of Sciences and Computer Engineering, 2009-Present.
- Associate Editor, IEEE Systems Journal, 2009-Present.
- Advisory Editor, Human-centric Computing Technology and Information Sciences (HCIS) Journal, Springer.
- Advisory Editorial Board Member, Security and Communication Networks Journal, 2007-Present, Wiley (Founding Member).
- Advisory Editorial Board, Industrial Networks and Intelligent Systems Journal.
- Advisory Editorial Board Member, ICST Transactions on Industrial Networks and Intelligent Systems (Founding Member).
- Advisory Editorial Board Member, Computers Research Today Journal, 2010-Present, Mili Publishers.

- Advisory Editor, Intentional Journal of ACM Jordan, 200-Present.
- Member of the Editorial Advisory Board, Simulation: Transactions of the Society for Modeling and Simulation International, SCS, 2005-2009.
- Member of International Advisory Board of Human-centric Computing and Information Sciences Journal, Springer, 2010-Presnet.
- Advisory Editorial Board Member, International Journal of Information Technology, Communications and Convergence, IJITCC, Journal, Inderscience, 2009-Present (Founding Member).
- International Advisory Board Member, International Journal of Wireless Networks and Broadband Technologies, 2009-Present.
- Member of the Editorial Advisory Board, International Journal of BioSciences and Technology, 2008-Presnet.
- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans; 1992-2008.
- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics; 1992-Present.
- Member of the Editorial Board, Journal of Computer Science and Engineering, Philips Publishing, NJ, USA; 2007-Present.
- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics, Part Applications and Reviews, 1992-2004.
- Area Editor for the Telecommunications and Networking Area, Simulation: Transactions of the Society for Modeling and Simulation International, Sage and SCS (2001-2005).
- Associate Editor, The Society for Computer Simulation monthly Journal "SIMULATION", 1991-2001.
- Associate Editor, Journal of Computers and Electrical Engineering, Elsevier, 1991-Present.
- Associate Editor, Journal for Defense Modeling and Simulation: Applications, Methodology, Technology, SCS, 2003-Present.
- Editorial Board Member, International Journal of Communication Networks and Distributed Systems, IJCNDS, 2006-Present.

- Editorial Advisory Board Member, Computer Communications Journal, Elsevier, 2000-Present.
- Editorial Advisory Board Member, International Journal of Information Technology, Communications and Convergence (IJITCC), Inderscience, 2009-Present.
- Editorial Board Member, Journal of Supercomputing, Springer, 2000-Present.
- Editorial Board Member, International Journal of Bioinformatics & Biological Systems (IJBBS)
- Member of the Editorial Review Board, IEEE Transactions on Instrumentation and Measurement, 1992-1999.
- Member of the Editorial Board, ACM Applied Computing Review, 1992-1999.
- Member of the Editorial Board, International Arab Journal on Information Technology, 2001-Present.
- Member of the Editorial Board of the International Journal of Information Sciences and Computer Engineering (IJISCE), 2009-Present.
- Advisory Editor, Human-centric Computing and Information Sciences (HCIS) Journal, Springer, 2011-Present.
- Guest Editor, Special Issue on High Performance Computing/Computers, The Society for Computer Simulation monthly journal SIMULATION, Vol. 61, No. 3, September 1993.
- Guest Editor, Special Issue on High Speed Networking, The Society for Computer Simulation monthly Journal, SIMULATION, Vol. 64, No.1, January 1995.
- Guest Editor, Special Issue on Modeling and Simulation of Computer Systems and Networks, Part I: Networks, The Society for Computer Simulation monthly Journal, SIMULATION, Vol. 68, No. 1, January 1997.
- Guest Editor, Special Issue on Modeling and Simulation of Computer Systems and Networks, Part II: Computer Systems, The Society for Computer Simulation monthly Journal, SIMULATION, Vol. 68, No. 4, April 1997.
- Guest Editor, Special Issue on Performance Evaluation Issues and Applications in Telecommunications Systems, Computer Communications Journal, Elsevier, March 2001.
- Editor, Proceedings of the 1997 SCS Summer Computer Simulation Conference, 957 Pages, SCS, 1997.
- Editor, Proceedings of the 1998 SCS Summer Computer Simulation Conference, 696 Pages, SCS, 1998.

- Editor, Proceedings of the 1998 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'98, 352 Pages, SCS, 1998.
- Guest Editor, IEEE Transactions on Systems, Man and Cybernetics, Part: B, on the Applications of Neural Networks to Systems, Man and Cybernetics, Vol. 28, NO. 4, August 1998.
- Guest Editor, Special Issue of the International Journal of Communication Systems on Performance Evaluation of ATM Systems, Wiley, July / August 1998.
- Guest Editor, Simulation Journal, Special Issue on the Performance Evaluation of Computer Systems and Networks, The Society for Computer Simulation, May 1998.
- Guest Editor, Journal of Computers & Electrical Engineering, Elsevier, Special Issue on Performance Evaluation of High Performance Computer Systems, Elsevier, May 1999.
- Editor, Proceedings of the 1999 SCS Summer Computer Simulation Conference, 656 Pages, SCS, 1999.
- Editor, Proceedings of the 1999 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'99, 414 Pages, SCS, 1999.
- Editor, Proceedings of the 2000 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'00, 570 Pages, SCS, 2000.
- Editor, Proceedings of the 2001 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'01, 634, Pages, SCS, 2001. (With Franco Davoli as Co-Editor)
- Guest Editor, Special Issue of the Computer Communications Journal on the Performance Evaluation of Telecommunication Systems: Models, Issues and Applications, Elsevier, May 2001.
- Guest Editor (with G. I. Papadimitriou and A. S. Pomportsis), Special Issue of the International Journal of Communication Systems on Advances in Optical Network: Architectures, Performance and Protocols, Wiley, December 2001.
- Guest Editor, Special Issue of the Transactions of the Society for Computer Simulation on the Performance Modeling and Simulation of ATM Systems and Networks, Part I, Vol. 78, No. 3, March 2002.
- Guest Editor, Special Issue of the Transactions of the Society for Computer Simulation on the Performance Modeling and Simulation of ATM Systems and Networks, Part II, Vol. 78, No. 4, April 2002.
- Guest Editor (with G. I. Papadimitriou and A. S. Pomportsis), IEEE Transactions on Systems, Man and Cybernetics, Part: B, on Learning Automata: Theory, Paradigms and

Applications, Vol. 32, No. 6, December 2002.

- Guest Editor, Special Issue of Computer Communication Journal on Advances in Performance Evaluation of Computer and Telecommunications Networking, Vol. 25, Issues 11-12, July 2002.
- Editor, Proceedings of the 2002 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'02, 989 Pages, SCS, 2002. (With Franco Davoli, Ibrahim Onyuksel and Raffaele Bolla as Co-Editors).
- Guest Editor, Special Issue of Computer Communication Journal on Recent Advances in Communications Networking, Vol. 26, No. 15, September 2003.
- Co-Guest Editor, Special Issue of Performance Evaluation Journal on Performance Modeling and Evaluation of High-Performance Parallel and Distributed Systems, Elsevier, 2004.
- Editor, Proceedings of the 2003 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'03, 989 Pages, SCS, 2003. (With Franco Davoli, Erina Ferro, and Ibrahim Onyuksel as Co-Editors).
- Guest Editor, Special Issue of Computer Communication Journal on Recent Advances in Computer Communications, September 2004.
- Editor, Proceedings of the 2004 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'04, 959 Pages, SCS, 2004. (With Abbas Jamalipour, and Franco Davoli as Co-Editors).
- Editor, Proceedings of the 2005 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'05, 962 Pages, SCS, 2005. (With Mario Marches, and Franco Davoli as Co-Editors).
- Guest Editor, Special Issue Computer Communication Journal on Performance Evaluation of Wireless Networks and Communications, Elsevier, Vol. 29, No. 8, May 2006.
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Performance Evaluation of Wireless Systems, SCS, 2005.
- Guest Editor, Special Issue of Computers & EE Journal on Recent Advances in Wireless Networks and Systems, Elsevier, Vol. 32, Nos. 1-3, January –May 2006.
- Guest Editor, Special Issue Computer Communication Journal on Advances in Computer Communication Networks, 2006.
- Editor, Proceedings of the 2006 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'06, 630 Pages, SCS, 2006. (With Franco Davoli, Jose Marzo, and Ljiljana Trakovic as Co-Editors).

- Editor, Proceedings of the 2006 International Conference on E-Business (ICE-B)-Part of IEEE ICETE 2006, 328 Pages, 2006. (With Joaquim Filipe and Thomas Greene).
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Recent Advances in Modeling and Simulation of Network Systems, SCS, Vol. 82, No. 6, June 2006.
- Guest Editor, Special Issue Computer Communication Journal on Advances in Performance of Communication Networks," to appear in July 2007.
- Guest Editor, Special Issue of IEEE Systems Journal on "Recent Advances in Global Navigation and Communication Satellite Systems (GNCSS)" Vol. 2, No. 1, March 2008.
- Co-Editor, Proceedings of the 2006 International Symposium on Ad hoc and Ubiquitous Computing (ISAHUC 2006), Surathkal, Mangalore, India, Dec. 20-23. Published as a book by IEEE Press, 2007.
- Editor, Proceedings of the 2007 International Conference on E-Business (ICE-B)-Part of IEEE ICETE 2007, 366 Pages, 2007. (With Joaquim Filipe).
- Editor, Proceedings of the 2007 International Conference on Security and Cryptography, SCRYPT 2007, Part of IEEE ICETE 2007, 434, (With Joaquim Filipe).
- Editor, Proceedings of the 2007 International Conference on Wireless Information Networks and Systems, WINSYS 2007, Part of IEEE ICETE 2007, 320 Pages, 2007. (With Joaquim Filipe).
- Editor, Proceedings of the 2007 International Conference on Signal Processing and Multimedia Applications, SIGMAP 2007, Part of IEEE ICETE 2007, 471Pages, 2007. (With Joaquim Filipe).
- Editor, Proceedings of the 2007 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'07, 620 Pages, SCS, 2007. (With Jose Marzo, and Ljiljana Trajkovic as Co-Editors).
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Advances in Performance Evaluation of Computer and Telecommunication Systems, SCS, Vol. 83, No.2, February 2007.
- Guest Editor, Special Issue of IEEE Wireless Communications on "Medium Access Control Protocols for Wireless LANs", Dec 2008.
- Guest Editor, Special Issue of IEEE Systems Journal on: "Recent Advances in Global Navigation and Communication Satellite Systems (GNCSS)," Vol. 2, No. 1, March 2008.

- Guest Editor, Special Issue Computer Communication Journal on Performance Evaluation of Communication Networks,” Vol. 31, No. 16, October 2008.
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Modeling and Simulation of Computer and Telecommunication Systems, SCS, 2008.
- Guest Editor, Special Issue of the Wiley Security and Communications Networks Journal on "Security in Wireless Sensor Networks," December 2008.
- Guest Editor, Special Issue of the International Journal of Communication Networks and Distributed Systems (IJCND) on the Techniques and Protocols for Merging Wireless and Mobility Services 3rd Quarter 2009.
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Advances in Performance Evaluation of Computer and Telecommunication Systems, SCS, 2009.
- Guest Editor, Special Issue of the International Journal of Communication Networks and Distributed Systems (IJCND) on Performance Evaluation of Computer Networks and Parallel Systems, 3rd Quarter 2009.
- Guest Editor, Special Issue of the IEEE Transactions on Systems, Man and Cybernetics (SMC)-Part B on International Journal of Communication Networks and Distributed Systems (IJCND) on Adaptive and Learning Systems, 2009.
- Editor, Proceedings of the 2008 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'08, 650 Pages, SCS, 2008. (With Jose Marzo, and Helena Szczerbicka as Co-Editors).
- Editor, Proceedings of the 2009 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'09, 620 Pages, SCS, 2009. (With Jose Marzo, and Sevi Sevillano as Co-Editors).
- Editor, Proceedings of the 2008 International Conference on Wireless Information Networks and Systems, WINSYS 2008, Part of IEEE ICETE 2008, 350 Pages, 2008. (With Rafael Caldeirinha).
- Editor, Proceedings of the 2009 International Conference on Wireless Information Networks and Systems, WINSYS 2009, Part of IEEE ICETE 2009, 2009, (With Rafael Caldeirinha).
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Performance Evaluation of Computer Networks, 3rd Quarter 2009.
- Guest Editor, Special Issue Simulation: Transactions of the Society for Modeling and Simulation International on Advances in Performance Evaluation of Computer Systems and

Networks, SCS, 2010.

- Guest Editor, Special Issue/Fast Track, Computer Communications Journal on Performance Evaluation of Computer and Communication Systems, Elsevier, 2010.
- Editor, Proceedings of the 2010 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'109, 451 Pages, SCS, 2010, (With Jose Marzo, Sevi Sevillano, and Rafaele Bola as Co-Editors). ISBN: 978-1-56555-341-5.
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Performance Evaluation of Communication Networking, 2010.
- Guest Editor, Special Issue of the Journal of Internet Technology, JIT, on Performance Evaluation of Computer Systems, 2011.
- Editor, Proceedings of the 2011 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS' 2011, SCS. (With Sevi Sevillano, and Rafaele Bola as Co-Editors).
- Editor, Proceedings of the International Conference on Data Communication Networking and International Conference on Optical Communication Systems, DCNET & OPTICS, SciTePress 2011. (with José Luis Sevillano, and Eusebi Calle Ortega).
- Editor, Proceedings of the International Conference on Wireless Information Networks and Systems, WINSYS, SciTePress 2011. (With Rafael F. S. Caldeirinha).
- Editor, Proceedings of the 2012 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS' 2012.
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Performance Evaluation of Computer Networks, 2012.
- Guest Editor, Special Issue of the IET Communications on Energy-Aware Wireless Network Protocols," 2012. (With Petros Nicopolitidis and Sanjay K. Dhurandher).
- Guest Editor, Special Issue of International Journal of Computer Mathematics, Taylor & Francis, Advanced Computer Mathematics based Cryptography and Security Technologies, 2013.
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Selected Papers from ICETE 2013.
- Editor, Proceedings of the 2013 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS' 2013.
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Selected Papers form

SIMULTECH 2013.

- Guest Editor, Special Issue of the Journal of Simulation (JoS) on Challenges in Modeling and Simulation, 2013.
- Guest Editor, Special Issue of the Journal of Security and Communications Networks, Wiley, 2014.
- Guest Editor (with Robert Hsu) of the Special Issue of Journal of Information System Frontiers (Springer) on Dynamic Intelligence Towards Merging Cloud and Communication Services.
- Guest Editor (with J. Park and V. Loia) of the Special Issue of Journal of Systems Architectures on Smart devices and Spaces for Pervasive Computing, Elsevier, Volume 60, No. 8, September 2014.
- Guest Editor, Special Issue of the Journal of Networks, (JNW) on Selected Papers from CITS 2015.
- Guest Editor with James Park and Han-Chieh Chao, Special issue of Springer Wireless Personal Communications journal on User Experience and Quality-of-Service in Internet of Things: Practice and Trends, Vol. 91, Dec 2016.

PUBLICATIONS:

A. Contribution to Books (47 Books)

47. **M. S. Obaidat**, I. Traore and I. Woungang, "Biometric-based Security Systems: State of the Art and Perspectives," Cambridge University Press, 2017.
46. **M. S. Obaidat** and P. Nicopolitidis, "Smart Cities and Homes-Key Enabling Technologies," Elsevier, 2016. Print ISBN: 978-0-12-803454-5, Electronic ISBN: 978-0-12-803463-7.
45. **M. S. Obaidat**, P. Nicopolitidis and F. Zarai, "Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications," Elsevier, 2015. ISBN: 9780128008874.
44. **M. S. Obaidat**, T. Oren, S. Koziel, and J. Filipe (Eds.), "Simulation and Modeling Methodologies, Technologies and Applications: Advances in Intelligent Systems and Computing" Springer, Series: Series: Advances in Intelligent Systems and Computing, Vol. 402, 2015. eBook: 978-3-319-26470-7 Softcover: 978-3-319-26469-1.
43. Christian Callegari, Enrique Cabello, Marten van Sinderen, **Mohammad S. Obaidat**, Panagiotis Sarigiannidis, Pascal Lorenz, Pierangela Samarati (Eds.), Proceedings of the 13th International Joint Conference on e-Business and

Telecommunications, Volume 2: ICE-B 2016, SCITEPRESS 2016. ISBN: 978-989-758-196-0.

42. Christian Callegari, Enrique Cabello, Marten van Sinderen, **Mohammad S. Obaidat**, Panagiotis Sarigiannidis, Pascal Lorenz, Pierangela Samarati (Eds.), Proceedings of the 13th International Joint Conference on e-Business and Telecommunications, Volume 3: OPTICS 2016, SCITEPRESS2016. ISBN: 978-989-758-196-0.

41. Christian Callegari, Enrique Cabello, Marten van Sinderen, **Mohammad S. Obaidat**, Panagiotis Sarigiannidis, Pascal Lorenz, Pierangela Samarati (Eds.), Proceedings of the 13th International Joint Conference on e-Business and Telecommunications, Volume 4: SECRYPT 2016, SCITEPRESS, 2016. ISBN: 978-989-758-196-0.

40. Christian Callegari, Enrique Cabello, Marten van Sinderen, **Mohammad S. Obaidat**, Panagiotis Sarigiannidis, Pascal Lorenz, Pierangela Samarati (Eds.), Proceedings of the 13th International Joint Conference on e-Business and Telecommunications, Volume 5: SIGMAP 2016, SCITEPRESS 2016. ISBN: 978-989-758-196-0.

39. Christian Callegari, Enrique Cabello, Marten van Sinderen, **Mohammad S. Obaidat**, Panagiotis Sarigiannidis, Pascal Lorenz, Pierangela Samarati (Eds.), Proceedings of the 13th International Joint Conference on e-Business and Telecommunications, Volume 6: WINSYS 2016, SCITEPRESS2016. ISBN: 978-989-758-196-0.

38. **M. S. Obaidat** and Sudip Misra, ” Principles of Wireless Sensor Networks,” Cambridge University Press, 2014. ISBN-13: 9780521192477.

37. **M. S. Obaidat**, S. Koziel, J. Kacprzyk, L. Leifsson and T. Oren, (Eds.), ” Simulation and Modeling Methodologies, Technologies and Applications: Advances in Intelligent Systems and Computing” Springer, Dec 2014. ISBN-13: 978-3319114569 ISBN-10: 3319114565.

36. **M. S. Obaidat**, and J. Filipe, (Eds.), ” E-Business and Telecommunications: International Joint Conference, ICETE 2013, Reykjavik, Iceland, Revised Selected Papers (Communications in Computer and Information Science), Springer, 2014. ISBN-13: 978-3662447871 and ISBN-10: 3662447878.

35. **M. S. Obaidat**, Joaquim Filipe, Janusz Kacprzyk, and Nuno Pina (Eds.), ” Simulation and Modeling Methodologies, Technologies and Applications - Advances in Intelligent Systems and Computing 256, Springer 2014.

ISBN 978-3-319-03580-2.

34. **M. S. Obaidat**, A. Holzinger, and E. Cabello (Eds.),” SIGMAP 2014 - Proceedings of the 11th International Conference on Signal Processing and Multimedia Applications, SciTePress, Vienna, Austria, August, 2014.
ISBN 978-989-758-046-8.
33. **M. S. Obaidat**, A. Holzinger, and P. Samarati (Eds.),” SECRIPT 2014 - Proceedings of the 11th International Conference on Security and Cryptography, SciTePress, Vienna, Austria, August, 2014.
ISBN 978-989-758-045-1.
32. **M. S. Obaidat**, A. Holzinger, and P. Sarigiannidis (Eds.): OPTICS 2014 - Proceedings of the 5th International Conference on Optical Communication Systems, SciTePress, Vienna, Austria, August, 2014.
ISBN 978-989-758-044-4.
31. **M. S. Obaidat**, A. Holzinger, J. L. Sevillano, and P. Lorenz (Eds.),” DCNET 2014 - Proceedings of the 5th International Conference on Data Communication Networking, SciTePress, Vienna, Austria, August, 2014.
ISBN 978-989-758-042-0.
30. **M. S. Obaidat**, A. Holzinger, M. Sinderen, P. Dolog (Eds.): ICE-B 2014 - Proceedings of the 11th International Conference on e-Business, Vienna, Austria, 28-30, SciTePress 2014, August, 2014. ISBN 978-989-758-043-7.
29. **M. S. Obaidat**, J. Filipe, J. Kacprzyk, and N. Pina, (Eds.),” Simulation and Modeling Methodologies, Technologies and Applications,” Springer 2013.
ISBN: 978-3-319-03581-9.
28. J. Park, A. Zomaya, H-Y Jeong and **M. S. Obaidat** (Eds.)” Frontier and Innovation in Future Computing and Communications (Lecture Notes in Electrical Engineering), Springer, 2014.
ISBN-10: 9401787972 and ISBN-13: 978-9401787970.
27. **M. S. Obaidat**, Joaquim Filipe, Janusz Kacprzyk, Nuno Pina (Eds.):
Simulation and Modeling Methodologies, Technologies and Applications - International Conference, SIMULTECH 2012 Rome, Italy, July 28-31, 2012 Revised Selected Papers. Advances in Intelligent Systems and Computing 256, Springer 2014, ISBN 978-3-319-03580-2.
26. **M. S. Obaidat**, H-Y. Jeong, N. Yen, and J. Park (Eds.),” Advanced in Computer Science and its Applications: CSA 2013 (Lecture Notes in Electrical Engineering), Springer, 2014.
ISBN-10: 364241673X and ISBN-13: 978-3642416736

25. **M. S. Obaidat**, A. Anpalagan, and I. Woungang,” Handbook of Green Information and Communication Systems,” Elsevier, 2013.
ISBN: 978-0-1241-5844-3
24. **M. S. Obaidat** and N. Boudriga,” Fundamentals of Performance Evaluation of Computer and Telecommunications Systems,” John Wiley & Sons, 2010.
ISBN: 0471269832.
23. **M. S. Obaidat**, J. Filipe, J. Kacprzyk, and N. Pina (Eds.): Simulation and Modeling Methodologies, Technologies and Applications, Springer 2014.
ISBN 978-3-319-03580-2.
22. **M. S. Obaidat**, J. L. Sevillano, and J. Filipe, (Eds.),” E-Business and Telecommunications- Communications in Computer and Information Science, Springer, Vol. 314, Dec 2012.
ISBN 978-3-642-35755-8
21. **M. S. Obaidat**, G. A. Tsihrintzis and J. Fillip (Eds.),” E-business and Telecommunications,” Springer, Feb 2012.
ISBN-10: 3642252052, ISBN-13: 978-3642252051
20. **M. S. Obaidat** and Mieso Denko, and Isaac Woungang, “Pervasive Computing and Networking” John Wiley & Sons, 2011.
ISBN-10: 0-470-74772-2; ISBN-13: 978-0-470-74772-8.
19. **M. S. Obaidat** and Sudip Misra,” Cooperative Networking,” John Wiley & Sons, 2011.
ISBN-10: 0-470-74915-6; ISBN-13: 978-0-470-74915-9.
18. J. Park, H-C Chao, **M. S. Obaidat** and J. Kim (Eds),” Computer Science and Convergence: (Lecture Notes in Electrical Engineering), Springer, Dec 2011.
ISBN-10: 9400727917; ISBN-13: 978-9400727915
17. P. Nicopolitidis, **M. S. Obaidat** and G. I. Papadimitriou,” Wireless Networks,” John Wiley & Sons, January 2003.
ISBN: 0471269832.
16. G. I. Papadimitriou, P. A. Tsimoulas, **M. S. Obaidat**, A. S. Pomportsis,” Multiwavelength Optical LANs, “Wiley, October 2003.
ISBN: 9780470851081.
15. **M. S. Obaidat** and G. I. Papadimitiou (Editors), “APPLIED SYSTEM SIMULATION: Methodologies and Applications,” Kluwer (Springer) 2003.
ISBN: 1-4020-7603-7.
14. **M. S. Obaidat** and N. Boudriga,” Security of e-Systems and Computer Networks,” Cambridge University Press, 2007.

ISBN:13: 9780521837644.

13. **M. S. Obaidat**, Nuno Pina, and Janusz Kacprzyk, Proceedings of the 2nd International Conference on Simulation and Modeling Methodologies, Technologies and Applications, SIMULTECH 2012, SciTePress 2012.
12. **M. S. Obaidat**, J. L. Sevillano, Z. Zhang, D. A. Marca, M. van Sinderen, P. G. Sarigiannidis, P. Castoldi, and V. Torres- Padrosa (Eds.): DCNET, ICE-B and OPTICS 2013 - Proceedings of the 4th International Conference on Data Communication Networking, 10th International Conference on e-Business and 4th International Conference on Optical Communication Systems, Reykjavík, Iceland, 29- 31 July, 2013. SciTePress 2013, ISBN 978-989-8565-72-3.
11. E. Cabello, M. Virvou, **M. S. Obaidat**, H. Ji, P. Nicopolitidis, D. D. Vergados (Eds.): SIGMAP and WINSYS 2013 - Proceedings of the 10th International Conference on Signal Processing and Multimedia Applications and 10th International Conference on Wireless Information Networks and Systems, Reykjavik, Iceland, 29-31 July, 2013. SciTePress 2013, ISBN 978-989-8565-74-7
10. **M. S. Obaidat**, T. Oren, J. Kacprzyk, L. Leifsson, and S. Koziel (Eds.): SIMULTECH 2013 - Proceedings of the 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications, Reykjavík, Iceland, 29-31 July, 2013. SciTePress 2013. ISBN 978-989-8565-69-3
9. **M. S. Obaidat** and J. Fillip (Eds.),” E-business and Telecommunications,” Springer, May 2011.
ISBN: 13: 9783642200762 **ISBN 10:** 3642200761
8. J. Fillip and **M. S. Obaidat** (Eds.),” E-business and Telecommunications,” Springer, 2010.
ISBN: 3642051960; **ISBN-13:** 9783642051968.
7. J. Fillip and **M. S. Obaidat** (Eds.),” E-business and Telecommunications,” Springer, 2009.
ISBN: 978-3-642-05196-8.
6. J. Filip and **Mohammad S. Obaidat** (Eds.),” E-business and Telecommunications,” Springer , 2008.
ISBN: 978-3-540-88652-4.
5. J. Filip and **Mohammad S. Obaidat** (Eds.),” E-business and Telecommunications,” Springer , 2007.
ISBN: 978-3-540-70759-2.
4. **M. S. Obaidat**, J. L. Sevillano, E. Eusebi (Eds.), Proceedings of the Proceedings of the International Conference on Data Communication Networking and International Conference on Optical Communication Systems, Seville, Spain, 18-21 July, 2011,

DCNET & OPTICS are parts of ICETE - The International Joint Conference on e-Business and Telecommunications, SciTePress 2011.

3. R. Caldeirinha, **M. S. Obaidat**, (Eds.) Proceedings of the International Conference on Wireless Information Networks and Systems, Seville, Spain, 18-21 July, 2011, WINSYS is part of ICETE - The International Joint Conference on e-Business and Telecommunications, SciTePress 2011.

2. N. Boudriga and **M.S. Obaidat** (Eds), "*Proceedings of the 12th IEEE Int. Conference on Electronics, Circuits, and Systems*", Vol 1-2, Dec. 11-14, 2005. ISBN: 9973-61-100-4.

1. **M. S. Obaidat** and Nouredine Boudriga (Eds), "*Electronic Government and Commerce: Design, Modeling, Analysis and Security*". Proceeding of the 1st Int. workshop (EGCDMAS 2004), in conjunction with ICETE 2004, Setubal, Portugal, August 2004. Insticc Press. ISBN: 972-8865-16-3.

B. Contribution to Book Chapters (43 Chapters)

43. T. Guelzm, and **M. S. Obaidat**," Cloud Computing Systems for Smart Cities and Homes, in Smart Cities andHomes- Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 241-260, Elsevier, 2016.

42. N. Naeem, M. Iqbal, A. Anpalagan, A. Ahmad and **M. S. Obaidat**," Optimization Classification and Techniques of WSNs in Smart Grids," in Smart Cities and Homes- Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 323-343, Elsevier, 2016.

41. E. Kammoun, F. Zarai and **M. S. Obaidat**," LTE and 5G Systems," in Smart Cities and Homes-Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 111-129, Elsevier, 2016.

40. T. Guelzm, **M. S. Obaidat** and B. Sadoun," Introduction and Overview of Key Enabling Technologies for Smart Cities and Homes," in Smart Cities and Homes- Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 1-16, Elsevier, 2016.

39. N. Omheni, M. S. Obaidat and F. Zarai," A Survey of Enabling Wireless Local Area Network Technologies for Smart Cities," in Smart Cities and Homes- Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 91-110, Elsevier, 2016.

37. A. Belghith and **M. S. Obaidat**," Wierless Sensor Netwokrs Applications to Smart Homes and Cities," in Smart Cities and Homes-Key Enabling Technologies, in Smart Cities and Homes- Key Enabling Technologies, (M. S. Obaidat, and P. Nicopolitidis, Eds.), pp. 17-40, Elsevier, 2016.

36. S. Samaoui, I. El Bouabidi, **M. S. Obaidat**, F. Zarai, and W. Mansouri, "Wireless

- and Mobiles Networks Technologies and Protocols", in Modeling and Simulation of Computer Networks and Systems, (M. S. Obaidat, P. Nicopolitidis and F. Zarai, Eds.), pp. 3-32, Elsevier, 2015.
35. T. Guelzim and **M. S. Obaidat**, "Formal Methods of Attach Modeling and Detection" in Modeling and Simulation of Computer Networks and Systems, (M. S. Obaidat, P. Nicopolitidis and F. Zarai, Eds.), pp. 841-860, Elsevier, 2015.
 34. W. Mansouri, K. Ben Ali, F. Zarai and **M. S. Obaidat**, "Radio Resource Management for Heterogeneous Wireless Networks: Schemes and Simulation Analysis" in Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications, M. S. Obaidat, P. Nicopolitidis and F. Zarai (Eds), pp. 767-792, Elsevier, 2015.
 33. N. Sharma, A. Anpalagan and **M. S. Obaidat**, "Evolutionary Algorithms for Wireless Network Resource Allocation," in Modeling and Simulation of Computer Networks and Systems, (M. S. Obaidat, P. Nicopolitidis and F. Zarai, Eds.), pp. 629-650, Elsevier, 2015.
 32. T. Guelzim and **M. S. Obaidat**, "Green Computing and Communication Architecture," in Handbook of Green Information and Communication Systems, (M. S. Obaidat, A. Alagan and I. Woungang, (Eds.), Elsevier, pp. 209-227, 2013.
 31. M. Gupta, **M. S. Obaidat** and S. Dhurandher, "Energy-efficient wireless sensor networks" in Handbook on Green Information and Communication Systems, (M. S. Obaidat, A. Alagan and I. Woungang, (Eds.), pp. 353-369, Elsevier, 2013.
 30. I. Woungang, S. K. Dhurandher, and **M. S. Obaidat**, "Using Ant Colony for Designing Energy-Efficient Protocols for Wireless Ad Hoc and Sensor Networks," in Handbook on Green Information and Communication Systems, (M. S. Obaidat, A. Alagan and I. Woungang, (Eds.), pp. 611-629, Elsevier, 2013.
 29. V. G. Gasull, D. F. Larios, J. Barbancho, C. León and **M. S. Obaidat** "A wildfire Prediction-based on Fuzzy Inference System for Wireless Sensor Networks," in E-business and Telecommunications," M. S. Obaidat, J. Sevillano and J. Phillip (Eds.), Springer, pp. 43-59, 2013.
 28. T. Guelzim and **M. S. Obaidat**, "Security and Privacy in Pervasive Networks," in Pervasive Computing and Networking, M. S. Obaidat and M. Denko (Eds.), pp. 161-173, Wiley 2011.
 27. J. Entrialgo and **M. S. Obaidat**, "Smart Devices, Systems and Intelligent Environment," in Pervasive Computing and Networking, (M. S. Obaidat, M. Denko, and I. Woungang, Eds.), pp. 203-217, Wiley 2011.
 26. **M. S. Obaidat** and T. Guelzim, "Fundamentals and Issues with Cooperative

Networking,” in *Cooperative Networking*, (M. S. Obaidat and S. Misra, Eds.), pp. 7-20, Wiley 2011.

25. **M. S. Obaidat** and David Green,” Simulation of Wireless Systems,” in APPLIED SYSTEM SIMULATION: Methodologies and Applications, (M. S. Obaidat and G. I. Papadimitiou Eds.), Kluwer 2003.
24. **M. S. Obaidat** and N. A. Boudriga,” Simulation of ATM Systems and Networks,” in APPLIED SYSTEM SIMULATION: Methodologies and Applications, (M. S. Obaidat and G. I. Papadimitiou Eds.), Kluwer 2003.
23. **M. S. Obaidat**, G. Papdimitriou and S. Obeidat,” Wireless Local Area Networks (WLANs), in Handbook on Inforation Security, Vol. 1, pp. 617-636, Wiley, 2006.
22. M. Suhail, B. Sadoun and **M. S. Obaidat**,” Digital Watermarking and Steganography, in Handbook on Inforation Security, Vol. 2, pp. 664-678, Wiley, 2006.
21. N. Boudriga and **M. S. Obaidat**,”Forensic Science and Computers for Security, In Handbook on Inforation Security, Vol. 2, pp. 702-714, Wiley, 2006.
20. G. I. Papadimitriou and **M. S. Obaidat**,” Virtual Private Networks (VPNs) Basics,” in Handbook on Inforation Security, pp. 596-611, Vol. 3, Wiley, 2006.
19. M. Hamdi, N. Boudriga and **M. S. Obaidat**,” Enterprise Security Architecture,” In Handbook of Technology Management, Wiley, 2008.
18. A. Meddeb, N. Boudriga and **M. S. Obaidat**,” Information Security Management,” in Handbook of Technology Management, Wiley, 2008.
17. S. Rekhis, and **M. S. Obaidat**,”Server-Side Security,” in Handbook on Inforation Security, Vol. 3, pp. 355-369, Wiley, 2006.
16. M. Hamdi, N. Boudriga, and **M. S. Obaidat**,”Security Plicy Guidelines,” Handbook on Inforation Security, Vol. 3, pp. 945-959, Wiley, 2006.
15. M. Hamdi, N. Boudriga, and **M. S. Obaidat**,”Security Plicy Guidelines,” In Handbook on Inforation Security, Vol. 3, pp. 945-959, Wiley, 2006.
14. M. Abdelkader, N. Boudriga and **M. S. Obaidat**,” SAGA: An Adaptive Infrastructure for Secure Available GRID on Ad Hoc Networks,” in E-Business and Telecommunication Network, (J. Filipe and M. S. Obaidat (Eds), CCIS 9, pp. 15, 27, Springer-Verlag, Berlin-Heidelberg, 2008.
13. Y. Khlifi, N. Boudriga and **M. S. Obaidat**,”Wave Division Multiplexing,” Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 1, pp. 606-628, 2008.

12. M. S. Obaidat, G. Papadimitriou and S. Obaidat, "Wireless LANs-Version2," Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 2, pp. 896-916, 2008.
11. G. Papadimitriou, and M. S. Obaidat, "Virtual Private Networks-Version 2," Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 3, pp. 488-501, 2008.
10. A. Lazzez, N. Boudriga and **M. S. Obaidat**, Optical Switching Techniques in WDM Optical Networks," Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 1, pp. 909-928, 2008.
9. F. Zarai, N. Boudriga and **M. S. Obaidat**, "Universal Mobile Telecommunications System," Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 2, pp. 699-715, 2008.
8. S. Rekhis, N. Boudriga and **M. S. Obaidat**, "Localization in Wireless Networks," Handbook on Computer Networks, (H. Bidgoli, Editor), Vol. 2, pp. 1158-1177, 2008.
7. M. Abdelkader, N. Boudriga and **M. S. Obaidat**, "A Novel Grid-Based Micropayment System for Heterogeneous Multi-Payment Accounting," in E-Business and Telecommunications, J. Filipe and M. S. Obaidat, (Eds.), pp. 30-54, 2008.
6. **M. S. Obaidat** and N. Boudriga, "IPsec: AH (Authentication Header) and ESP (Encapsulating Security Payload)," Handbook on Information Security, Vol. 1, Wiley, pp. 932-943, 2006.
5. **M. S. Obaidat** and Y. Wang, "An Experimental Performance Analysis Study of Loss Rate and Jitter Characteristics in Wireless Networks," in e-Business and Telecommunication Networks, (J. Asceno, L. Vasiu, and C. Belo, Eds.), pp. 19-29, Springer, 2006.
4. N. Krichene, N. Boudriga and **M. S. Obaidat**, "Worldwide Interoperability for Microwave Access (WiMAX)," in "Handbook of Wireless Mesh & Sensor Networks", G. Aggelou (Editor.), McGraw-Hill, 2007.
3. **M. S. Obaidat**, "Simulation of Queueing Models in Computer Systems," chapter in Queueing Theory and Applications, S. Ozekici (Ed.), Hemisphere, pp. 111-151, Hemisphere Publishing Corporation, N.Y., 1990.
2. **M.S. Obaidat** et al., "An Artificial Neural Network System for Identifying Computer Users", in Intelligent Engineering Systems Through Artificial Neural Networks, C. Dagli (Ed.), pp. 953-960, ASME Press, 1991.

1. **M. S. Obaidat**, and B. Sadoun," Keystroke Dynamics Based Identification," in Biometrics: Personal Identification in Networked Society, Anil Jain et al (Editors), pp. 213-229, Kluwer, MA, 1999.

C. Refereed Journal Papers:

1. **M. S. Obaidat** and L. E. Leguire, "A Dynamic and Static Microcomputer-based Stereogram Generator," IEEE Transactions on Systems, Man and Cybernetics, Vol. 21, No. 01, pp.228-231 January/February, 1991.
2. S. A. Bleha and **M. S. Obaidat**, "Dimensionality Reduction and Feature Extraction Applications in Identifying Computer Users," IEEE Transactions. on Systems, Man and Cybernetics, pp. 452-456, Vol. 21, No. 2, March 1991.
3. **M. S. Obaidat** and M. A. Radaideh, "A Comparative Simulation Study of the Performance of Single-bus and Two-bus Multiprocessors," SIMULATION Journal, The Society for Computer Simulation International, Vol. 56, No.1, pp.9-18, January 1991.
4. **M. S. Obaidat**, "Performance Evaluation of the IMPS Multiprocessor System," Journal of Comp. & Elec. Eng., Elsevier, Vol. 15, No. 4, pp. 121-130, Dec. 1989.
5. **M. S. Obaidat** and L. E. Leguire, "The Architecture and Design of a Computerized Random Element Stereogram for Vision Test," Med. & Bio. Engr. & Comput. Journal, Taylor & Francis, Vol. 28, No. 2, pp. 166-170, March 1990.
6. **M.S. Obaidat** and M. Irshid," A Fast Multi-step Addition Algorithm, International Journal of Electronics, Taylor & Francis, Vol.70, No.5, pp. 839-849, May 1991.
7. **M.S. Obaidat** and J.W. Ekis," An Automated System for Characterizing Ultrasonic Transducers Using Pattern Recognition", IEEE Transactions on Instrumentation and Measurement, Vol.40, No.5, pp. 847-850, October, 1991.
8. **M.S. Obaidat** and M.A. AL-Rousan," Protocol for Token Ring Local Computer Networks and Its Performance", IEE Electronics Letters, Vol.27, No.25, pp.2393-2394, December 1991.
9. **M. S. Obaidat**, S. A. Bleha," A Decimal Multiplication Algorithm for Microcomputers," Journal of Comp. & Elec. Eng., Elsevier, Vol.18, No.5. pp. 357-363, May, 1992.
10. **M.S. Obaidat** and D.S. Abu-Saymeh," Methodologies for Characterizing Ultrasonic

Transducers Using Neural Network Paradigms", IEEE Transactions on Industrial Electronics, Vol. 39, No. 6, pp. 529-536, Dec. 1992.

11. **M.S. Obaidat**, "Performance Simulation Analysis of RISC-based Multiprocessors under Uniform and Nonuniform Traffic," Information Sciences Journal, North-Holland, Vol. 72, No. 1 and 2, pp. 157-177, August 1993.
12. **M.S. Obaidat** and D.S. Abu-Saymeh, "Performance of RISC-based Multiprocessors", Journal of Comp. & Elec. Eng., Elsevier, Vol. 19, No. 3, pp. 185-192, May 1993.
13. **M.S. Obaidat**, "The Architecture, Design and Performance of a Modular Multiprocessor System," International Journal of Microcomputer Applications, IASTED, Vol.11, No.3, pp. 120-129, 1992.
14. **M.S. Obaidat** and D. T. Macchairllo, "An On-line Neural Network System for Computer Access Security", IEEE Transactions on Industrial Electronics, Vol. 40, No.2, pp. 235-242, April 1993.
15. **M.S. Obaidat**, "Advanced Computer Architecture: Parallelism, Scalability, and Programmability", SCS Simulation Journal, SCS, Vol. 61, No. 4, pp. 250, October 1993.
16. S.A. Bleha and **M.S. Obaidat** "Computer User Verification Using the Perceptron ", IEEE Transactions on Systems, Man and Cybernetics, Vol.23, No. 3, pp. 900-903, May/June, 1993.
17. **M.S. Obaidat** "On the Characterization of Ultrasonic Transducers Using Pattern Recognition Techniques" IEEE Transactions on Systems, Man, and Cybernetics, Vol. 23, No. 5, pp. 1443-1450, Sep./Oct., 1993.
18. **M.S. Obaidat**, "A Methodology for Improving Computer Access Security," Computers & Security, Elsevier, Vol.12, No.7, pp.657-662, October/November, 1993.
19. **M.S. Obaidat**, "Phonocardiogram Signal Analysis: Techniques and Performance Comparison", Journal of Medical Engineering and Technology, Vol. 17, No. 6, pp. 221-227, November/December 1993.
20. **M.S. Obaidat**, "A Methodology for Evaluating the Performance of RISC Systems", SCS SIMULATION journal, SCS, Vol. 61, No. 3, pp. 196-206, Sep. 1993.
21. **M.S. Obaidat** and D.T. Macchairolo "A Multilayer Neural Network System for Computer Access Security" IEEE Transactions on Systems, Man, and Cybernetics, Vol. 24, No. 5, pp. 806-813, May 1994.

22. **M. S. Obaidat**, "Guest Editorial: High Performance Computers: Model Development and Applications", SCS SIMULATION Journal, SCS, Vol. 61, No.3. pp. 149-150, Sep. 1993.
23. **M.S. Obaidat** and D. Donahue," A Priority Ethernet LAN Protocol and Its Performance", ACM Applied Computing Review, ACM, Vol. 1, No.2, pp. 16-23, Fall 1993.
24. **M.S. Obaidat** and D.S. Abu-Saymeh," A Microcomputer-based Video Pattern Generator for Binocular Vision Test", IEEE Transactions on Instrumentation and Measurement, Vol. 43, No. 1, pp. 89-93, February 1994.
25. **M.S. Obaidat**, "A Simulation Approach to the Performance of DQDB Metropolitan Area Computer Networks", International Journal in Computer Simulation, Ablex, Vol. 5, pp. 29-42, 1995.
26. **M. S. Obaidat** and B. Sadoun," NW: A Neural Network Software Package", IEEE Computer, pp. 78-80, August 1994.
27. **M. S. Obaidat** and B. Sadoun " HSOP: A Neural Network Paradigm and Its Applications", Neural Computing & Applications Journal, Springer, Vol. 2, No.2, pp. 89-96, 1994.
28. **M.S. Obaidat**," A Clustering Technique for Partitioning Long Local Computer Networks", Journal of Computers & Electrical Engineering,
29. Elsevier, Vol. 20, No. 6, pp. 459-466, November, 1994.
30. **M.S. Obaidat**, " Discrete Event Simulation", SCS Simulation Journal, SCS, Vol. 62, No. 5, pp. 310-311, May 1994.
31. **M. S. Obaidat**, H. Khalid, and K. Sadiq," A Methodology for Evaluating the Performance of CISC Computer Systems Under Single and Two-level Cache Environments", Microprocessing and Microprogramming: The Euromicro Journal, Elsevier, Vol. 40, No. 6, pp. 411-426, July 1994.
32. **M.S. Obaidat**," A New Token Ring Protocol and Its Performance for Single and Dual Ring LAN Systems", Int'l Journal of Communication Systems, Wiley, Vol. 7, No. 3, pp. 247-260, September 1994.
33. K. Khalil and **M.S. Obaidat**" High Performance Protocols for Ring LAN and MAN Computer Networks", Information Sciences Journal, North-Holland, Vol. 83, No. 1/2, pp. 37-47, March 1995.

34. **M.S. Obaidat**, "High Speed Networking: Simulation Modeling and Applications", SCS Simulation Journal, SCS, Vol. 64, No. 1, pp. 4-6, January 1995.
35. K. Khalil, J. C. Hand, and **M. S. Obaidat**, "Methodologies for Characterizing Traffic in Wide Area Networks": Analysis and Benchmarking", International Journal of Communication Systems, Wiley, Vol. 8, No. 2, pp. 117-127, March/April 1995.
36. **M. S. Obaidat**, "A Simulation Study of 2-Level Cache System Using Different Replacement Combinations", Journal of Computers & Elec. Engr., Elsevier, Vol. 21, No. 3, pp. 201-210, 1995.
37. **M. S. Obaidat**, "A Performance Simulation Study of Ethernet and Token Bus Local Networks", Simulation Journal, SCS, Vol. 64, No. 6, pp. 381-396, June 1995.
38. J. Teng, and **M. S. Obaidat**, "Parallel Frame Synchronous Scheme for STM-1 of SDH Networks", International Journal of Communication Systems, Wiley, pp.229-236, Vol. 9, No. 5, September/October 1996.
39. **M. S. Obaidat**, "Modeling and Simulation of Computer Systems and Networks: Part I: Networks", Simulation Journal, SCS, Vol. 68, No. 1, pp. 6-8, January 1997.
40. **M. S. Obaidat** and B. Sadoun, "Verification of Computer Users Using Keystroke Dynamics", IEEE Trans. on Systems, Man, and Cybernetics, Part B, Vol. 27, No. 2, pp. 261-269, April 1997.
41. **M. S. Obaidat**, "Modeling and Simulation of Computer Systems and Networks: Part II: Computer Systems", Simulation Journal, SCS, Vol. 68, No.4, pp. 205-207, April 1997.
42. Khalid and **M. S. Obaidat**, "Simulation of a New Neural Network-based Cache Replacement Scheme", Simulation Journal, SCS, Vol. 68, No.4, pp. 209-218, April 1997.
43. **M.S. Obaidat**, and B. Sadoun, "An Evaluation Simulation Study of Neural Network Paradigms for Computer Users Identification", Information Sciences Journal-Applications, Elsevier, Vol. 102, No. 1-4, pp. 239-258, November 1997.
44. R. Bolla, A. Dalal'ah, F. Davoli, M. Marchese and **M. S. Obaidat**, "Integrated Dynamic Distributed Routing and Admission Control in ATM Networks", International Journal of Communication Systems, Wiley, pp. 215-225, Vol. 10, No. 5, September/October 1997.
45. Jun Teng, **M. S. Obaidat** and H. Khalid, "Determination of Buffer Capacity for

Payload Multiplexing in SDH Systems", the International Journal of Communication Systems, Wiley, pp. 285-289, Vol.10, No.6, November/ December 1997.

46. N. Boudriga, **M. S. Obaidat**, and S. Guemara-El-Fatmi," Multiple Connections in Data Communication and Advanced Applications", Computer Communication Journal, Vol. 20, pp. 1051-1058, Elsevier, 1997.
47. **M. S. Obaidat**, and H. Khalid and B. Sadoun, " Ultrasonic Transducers Characterization by Neural Networks, Information Sciences Journal, Elsevier, Vol. 107, No. 1-4, pp. 195-215, June 1998.
48. **M. S. Obaidat** and H. Khalid," Estimating Neural Networks-Based Algorithm for Adaptive Cache Replacement," IEEE Trans. on Systems, Man and Cybernetics, Part B: Cybernetics, Vol. 28, No. 4, pp. 602-611, August 1998.
49. **M. S. Obaidat** , " Artificial Neural Networks to Systems, Man and Cybernetics: Characteristics, Structures, and Applications", IEEE Trans. on Systems, Man and Cybernetics, Part B: Cybernetics, Vol. 28, No. 4, pp. 489-495, August 1998.
50. **M. S. Obaidat**, and J. Teng "A Methodology to Analyze the Performance of a Parallel Frame Synchronization Scheme in SDH High Speed Networks", Computer Communications Journal", Elsevier, Vol. 22, No. 7, pp. 644-650, May 1999.
51. **M. S. Obaidat**, " Editorial: Performance Evaluation of ATM Systems," International Journal of Communication Systems, Wiley, Vol. 11, No. 4, pp. 211-213, July/August 1998.
52. **M. S. Obaidat**, Andy Brodzik, and B. Sadoun and," A Performance Evaluation Study of Four Wavelet Algorithms for the Pitch Period Estimation of Speech Signals", Information Sciences Journal, Elsevier, Vol. 112, No. (1-4), pp. 213-221, December 1998.
53. C. Ben Ahmed, N. Boudriga, and **M. S. Obaidat**, "Bandwidth Allocation and Call Admission Control in ATM Networks," International Journal of Communication Systems, Vol. 11, No. 4, pp. 287-298, July/August 1998.
54. **M. S. Obaidat** and M. Rhiel, "A Simulation Methodology to Study Input Buffering in ATM Switches," Simulation Journal, SCS, Vol. 72, No. 5, pp. 280- 283, May 1998.
55. **M. S. Obaidat**, C. Ahmed, and N. Boudriga, "Schemes for Mobility Management of Wireless ATM Networks," the International Journal of Communication Systems, Wiley, Vol. 12, No. 3, pp. 153-166, May/June 1999.

56. **M. S. Obaidat**," Performance Evaluation of Computer and Telecommunications Systems, SIMULATION Journal, SCS, Vol. 72, N0. 5, pp. 295-303, May 1999.
57. H. Khalid and **M. S. Obaidat**, " KORA: A New Cache Replacement Scheme", Journal of Computers & EE, Elsevier, Vol. 26, N0. 3-4, pp. 187-206, May/July 2000.
58. A. Dalal'ah, F. Davoli, P. Maryni, and **M. S. Obaidat**, " Multi-Layer VP Assignment in an ATM Backbone," International Journal of Parallel and Distributed Systems and Networks, ACTA Press, Vol. 2, No.4, pp. 235-243, 1999.
59. H. Khalid and **M. S. Obaidat**, "Application of Neural Networks to Cache Replacement," Neural Computing & Applications Journal, Springer, Vol. 8, pp. 246-256, August 1999.
60. **M. S. Obaidat** and D. S. Abu-Saymeh, " A Real-time Video Pattern Generator for Use in Ophthalmology," Journal of Medical Engineering & Technology, Taylor & Francis, Vol. 23, No. 4, pp. 127-143, July/August 1999.
61. **M. S. Obaidat**, "Telecommunication Systems for the New Millennium," International Journal of Communication Systems, Wiley, Vol. 12, Nos. 5 & 6, pp. 321-324, September-Dec., 1999.
62. C. Ahmed, N. Boudriga, and **M. S. Obaidat**," A Performance Analysis Scheme for Intelligent Wireless ATM Networks," International Journal of Communication Systems, Wiley, Vol. 12, Nos. 5 & 6, pp. 405-426, September-Dec., 1999.
63. **M. S. Obaidat**, "Performance Evaluation of High Performance Computing/Computers," Journal of Computer and Elec. Engr., Elsevier, Vol.26, No. 3-4, pp. 181-185, May/July 2000.
64. **M. S. Obaidat**, C. Lee, B. Sadoun and D. Nelson," Estimation of Pitch Period of Speech Signals Using a New Dyadic Wavelet Algorithm", Information Sciences Journal, North-Holland/Elsevier, Vol. 119, pp. 21-39, 1999.
65. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, "A Methodology to Optimize the Design of Telecommunication Systems," Computer Communications Journal, Elsevier, 912-921, Vol. 23, N0. 10, May 2000.
66. **M. S. Obaidat**, C. Ben Ahmed, N. Boudriga, "An Adaptive Approach to Manage Traffic in CDMA ATM Networks," Computer Communications Journal, Elsevier, 942-949, Vol. 23, N0. 10, May 2000.

67. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**," On Congestion Management Schemes for High Speed Networks Using Aggregated Large Deviation Principle," Computer Communications Journal, Elsevier, Vol. 24, No. 9, pp. 860-867, May 2001.
68. R. Khaswaneh, and **M. S. Obaidat**," A Comparative Evaluation Study of the Performance of DQRAP and DQDB in Metropolitan Area Networks", Computers & EE Journal, Elsevier, Vol. 28, pp. 143-153, January 2002.
69. **M. S. Obaidat**," Performance Evaluation of Telecommunication Systems: Models, Issues, and Applications," Computer Communications Journal, Elsevier, Vol. 24, No. 9, pp. 753-756, May 2001.
70. **M. S. Obaidat**, G. I. Papadimitriou, and A. S. Pomportsis, "An Efficient Adaptive Bus Arbitration Scheme for Scalable Shared-Medium ATM Switches," Computer Communications Journal, Elsevier, Vol. 24, No. 9, pp. 790-797, May 2001.
71. **M. S. Obaidat**, G. I. Papadimitriou and A. S. Pomportsis," Learning Automata: Theory, Paradigms and Applications," IEEE Transaction on Systems, Man and Cybernetics-Part B, Vol. 32, No. 6, pp. 706-709, December 2002.
72. **M. S. Obaidat**, M. Suhail and B. Sadoun," An Intelligent Simulation Methodology to Characterize Defects in Materials," Information Sciences Journal, Elsevier, Vol. 137, Nos. 1-4, pp. 33-41, 2001.
73. **M. S. Obaidat**, C. Ahmed, and N. Boudriga," DRA: A New Buffer Management Scheme for Wireless ATM Networking Using Aggregative Large Deviation Principle, Computer Communications Journal, Elsevier, Vol. 26, No. 7, pp. 708-717, May 2003.
74. **M. S. Obaidat**, G. I. Papadimitriou, and A. S. Pomportsis," Learning Automata-Based Bus Arbitration for Shared-Medium ATM Switches," IEEE Transaction on Systems, Man and Cybernetics-Part B, Vol. 32, No. 6, pp. 815-820, December 2002.
75. G. I. Papadimitriou, **M. S. Obaidat**, and A. S. Pomportsis," On the Use of Learning Automata in the Control of Broadcast Network: A Methodology," IEEE Transaction on Systems, Man and Cybernetics-Part B, Vol. 32, No. 6, pp. 781-790, December 2002.
76. **M. S. Obaidat**, "Performance Evaluation of Telecommunication Systems: Models, Issues and Applications," Computer Communications Journal, Elsevier, Vol. 34, No. 9, pp. 753-756, July 2001.
77. G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis," Adaptive Protocols for

Optical LANs with Bursty and Correlated Traffic," International Journal of Communication Systems, Wiley, Vol. 15, Nos. 2-3, pp. 115-126, March/April, 2002.

78. G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis," Advances in Optical Networking," " International Journal of Communication Systems, Wiley, Vol.15, Nos. 2-3, pp. 101-114, March/April, 2002.
79. R. Khasawneh and **M. S. Obaidat**", A Comparative Evaluation Study of the Performance of DQRAP and DQDB in Metropolitan Area Networks," Computers and EE: An International Journal, Elsevier, Vol. 28, No. 2, pp. 143-153, March 2002.
80. M. Suhail and **M. S. Obaidat**," Digital Watermarking-Based DCT and JPEG Model," IEEE Transactions on Instrumentation and Measurement, Vol. 52, No. 5, pp. 1640-1647, October 2003.
81. Z. H. Al-Awwami, **M. S. Obaidat**, and M. Al-Mulhem," Performance Evaluation of the ZOMA Preemptive Deadlock Recovery Mechanism for Wormhole Networks," Simulation Journal, Vol. 77, No. 5-6, pp. 206-218, SCS, November/December 2001.
82. **M. S. Obaidat**, and S. Obeidat," Modeling and Simulation of Adaptive ABR Voice Over ATM Networks," Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol. 78, No. 3, pp. 139-149, March 2002.
83. Nicopolitidis G.I. Papadimitriou, **M.S. Obaidat**, and A.S. Pomportsis, "TRAP: A High Performance Protocol for Wireless Local Area Networks," Computer Communication Journal, Elsevier, Vol. 25, No-11-12, pp. 1058-1065, July 2002.
84. **M. S. Obaidat**, Z. Al-Awwami, and M. Al-Mulhem," An Efficient Injection Limitation Scheme for Fully Adaptive Routing in Wormhole Networks," Computer Communication Journal, Elsevier, Vol. 25, No-11-12, pp. 997-1008, July 2002.
85. **M. S. Obaidat**, and V. Cassod, "An Implementation for ATM Adaptation Layer 5," Computer Communications Journal, Elsevier, Vol. 25, No-11-12, pp.1103-1112, July 2002. .
86. **M. S. Obaidat**," Advances in Performance Evaluation of Computer and Telecommunications Networking, » Computer Communication Journal, Elsevier, Vol. 25, No-11-12, pp.993-996, July 2002.
87. **M. S. Obaidat**," ATM Systems and Networks: Basics, Issues, and Performance Modeling and Simulation," Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol. 78, No. 3, pp. 127-138, March 2002.

88. M. A. Suhail, **M. S. Obaidat**, S. S. Ipson, and B. Sadoun, "A Comparative Study of Digital Watermarking in JPEG and JPEG 2000 Environments," Information Sciences Journal, Elsevier, Vol. 151, pp. 93-105, 2003.
89. **M. S. Obaidat**, "Recent Advances in Computer Communications Networking," Computer Communication Journal, Elsevier, Vol. 26, No. 15, pp. 1723-1726, September 2003.
90. D. Green and **M. S. Obaidat**, "Modeling and Simulation of IEEE 802.11 WLAN Mobile Ad-hoc Networks Using Topology Broadcast Reverse-Path Forwarding (TBRPF)," Computer Communications Journal, Elsevier, Vol. 26, No. 15, pp. 1741-1746, September 2003.
91. M. Sklira, A. S. Pomportsis, and **M. S. Obaidat**, "A Framework for the Design of Bank Communications," Computer Communications Journal, Elsevier, Vol. 26, No. 15, pp. 1775-1781, September 2003.
92. **M. S. Obaidat**, G. I. Papadimitriou, and A. S. Pomportsis, "Efficient Fast Learning Automata," Information Sciences Journal, Elsevier, Vol. 157, pp. 121-133, 2003.
93. P. Nicopolitidis, G.I. Papadimitriou, **M.S. Obaidat**, and A.S. Pomportsis, "Third Generation and Beyond Wireless Systems," Communications of ACM, ACM, Vol. 46, No. 8, pp. 120-124, August 2003.
94. **M. S. Obaidat**, and David Green, "Modeling and Simulation of IEEE 802.11 LAN Mobile Ad-hoc Networks Using Topology Broadcast Reverse-Path Forwarding (TBRPF)," Computer Communication Journal, Elsevier, Vol. 26, pp. 1741-1746, 2003.
95. M. Sklira¹, A. S. Pomportsis **M. S. Obaidat**, "A Framework for the Design of Bank Communications Systems," Computer Communication Journal, Elsevier, Vol. 26, No. 15, pp. 1775-1781, 2003.
96. **M. S. Obaidat**, "Recent Advances in Computer Communications Networking," Computer Communications Journal, Elsevier, Vol. 26, No. 15, pp. 1723-1726, September 2003.
97. P. Nicopolitidis, G.I. Papadimitriou, **M.S. Obaidat**, and A. S. Pomportsis, "Economics of Wireless Networks," Communications of ACM, ACM, Vol. 47, No. 4, pp. 83-86, April 2004.

98. S. El-Fatmi, N. Boudriga and **M. S. Obaidat**,” Relational-based Schemes for Trust Management in Networked Services,” Computer Communications Journal, Vol. 27, No. 12, pp. 1206-1219, July 2004.
99. A. Al-Dubai, M. Ould-Khaoua, **M. S. Obaidat**,” A Simulation Study of Scalable Broadcast in High-Performance Regular Networks,” Simulation: Transactions of the Society for Modeling and Simulation International, Sage and SCS, Vol. 80, No. 4-5, pp. 207-220, April/May 2004.
100. **M. S. Obaidat** and D. Green,” An Adaptive Protocol for IEEE 802.11 Wireless LANs,” Computer Communication Journal, Elsevier, Vol. 27, No. 12, pp. 1131-1136, July 2004.
101. N. Boudriga and **M. S. Obaidat**,” "Intelligent Agents on the Web: A Review" IEEE Computing in Science & Engineering, pp. 35-42, Vol. 6, No. 4, July/August 2004.
102. **M. S. Obaidat**, “Advances in Computer Communications,” Computer Communication Journal, Elsevier, Vol. 27, No. 12, pp. 1127-1130, July 2004.
103. G. I. Papadimitriou, **M. S. Obaidat**, A. S. Pomportsis,” On the Performance of Adaptive TDMA Protocols in WDM Passive Star Networks with Fixed Transmitters and Tunable Receivers,” Performance Evaluation Journal, North –Holland, Vol. 60, Nos. 1-4, pp. 189-199, May 2005.
104. M. Ould-Khaoua, H. Sarbazi-Azad and **M.S. Obaidat**,” Performance Modeling and Evaluation of High-performance Parallel and Distributed Systems,” Performance Evaluation Journal, North –Holland, Vol. 60, Nos. 1-4, pp. 1-4, May 2005.
105. N. Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat** A. S. Pomportsis: “Carrier-Sense-assisted Adaptive learning MAC Protocols for Distributed Wireless LANs,” International Journal of Communication Systems, Wiley, Vol. 18, No. 7, pp. 657-669, October 2005.
106. **M. S. Obaidat**,” Performance Evaluation of Wireless and Communications Systems,” Computer Communications Journal, Elsevier, Vol. 29, pp. 923-925, 2006.
107. T. D. Lagkas, G. I. Papadimitriou, A. S. Pomportsis, and **M.S.Obaidat**, “SQAP: A Simple QoS Supportive Adaptive Polling Protocol for Wireless LANs,” Computer Communications Journal, Elsevier, Vol. 29, No. 8, pp. 934-937, 2006.
108. F. Zarai, N. Boudriga, and **M.S Obaidat**, “Performance Evaluation of a Novel Scheme for QoS Provision in UTRA TDD,” Computer Communications Journal, Elsevier, Vol.

29, No. 8, pp. 969-982, 2006.

109. **M. S. Obaidat**, "Performance Evaluation of Wireless Systems," Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol. 81, No. 8, pp. 531-532, August 2005.
110. P. Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis, "Performance Optimization of an Adaptive Wireless Push System in Environments with Locality of Demand" Computer Communications journal, Elsevier, Vol. 29, No. 13-14, pp. 2542-2549, August 2006.
111. N. Boudriga and **M. S. Obaidat**, "Mobility, Sensing, and Security Management in Wireless Ad-hoc Sensor Networks", Computers & Electrical Engineering Journal, Vol. 32, No. 1-3 , pp. 266-276, May 2006.
112. T. D. Legkas, G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis,"SQAP: A Simple QoS Supportive Adaptive Polling Protocol for Wireless LANs," Computer Communication Journal, Elsevier, Vol. 29, No. 8, pp. 934-937, May 2006.
113. F. Zarai, N. Boudriga, and **M. S. Obaidat**, «Performance Evaluation of a Novel Scheme for QoS Provision in UTRA TDD», Computer communication Journal, Elsevier, Vol. 29, No. 8, pp. 969-982, May 2006.
114. **M. S. Obaidat** and M. Marchese, "Recent Advances in Wireless Networks and Systems," Journal of Computers and Electrical engineering, Elsevier, Computers & Electrical Engineering Journal, Vol. 32, No. 1-3 , pp. 1-6, May 2006.
115. F. Zarai, N. Boudriga, and **M.S. Obaidat**," WLAN-UMTS Integration: Architecture, Seamless Handoff, and Simulation Analysis," Simulation: Transactions of the Society for Modeling and Simulation Journal, SCS, Vol. 82, No. 6, pp. 413-424, June 2006.
116. **M.S. Obaidat**," Performance Evaluation of Wireless Networks and Communications," Computer Communication Journal, Elsevier, Vol. 29, No. 8, pp. 923-925, May 2006.
117. **M.S. Obaidat**," Recent Advances in Modeling and Simulation of Network Systems, Simulation: Transactions of the Society for Modeling and Simulation Journal, SCS, Vol. 82, No. 6, pp. 365-367, June 2006.
118. N. P. Nicopolitidis, M. Sklira, G. I. Papadimitriou, **M. S. Obaidat** and A.S. Pomportsis," Satellite Networks for Internet Access," International Journal of Telecommunications, 2006.

119. Amor Lazzez, Yassine Khelifi, Nouredine Boudriga, and **M.S. Obaidat**,” A Novel Node Architecture for Optical Networks: Modeling, Analysis, and Performance Evaluation,” Computer Communication Journal, Elsevier, Vol. 30, No. 5, pp. 999-1014, March, 2007.
120. P. Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis,” A New High Rate Adaptive Wireless Data Dissemination Scheme,” Computer Communication Journal, Elsevier, Vol. 30, No. 5, pp. 957-964, March 2007.
121. **M. S. Obaidat**, Y. Khilifi, and N. Boudriga,” “Performance Analysis of a Dynamic QoS Scheme in Optical Label Switched Network,” Computer Communications Journal, Elsevier, Vol. 30, No. 16, pp. 3012-3026, 2006.
122. N. Boudirga, A. Lazzez, and **M. S. Obaidat**,” Absolute Transmission Delay Guarantee in Optical Burst-Switched Networks: A Scheme and Performance Evaluation,” Simulation: Transactions of the Society for Modeling and Simulation Journal, SCS, Vol. 83, No. 2, pp. 173-187, February 2007.
123. **M. S. Obaidat**,” Advances in Performance Evaluation of Computer and Telecommunication Systems,” Simulation: Transactions of the Society for Modeling and Simulation Journal, SCS, Vol. 83, No. 2, pp. 135-137, February 2007.
124. M. Hamdi and **M. S. Obaidat**, “WHOMoVeS: An Optimized Broadband Sensor Network for Military Vehicle Tracking,” International Journal of Communication Systems, Wiley, Vol. 21, No. 3, pp. 277-300, March 2008.
125. **M. S. Obaidat**, Y. Khilifi and N. Boudriga,” Performance Analysis of a Dynamic QoS in Optical Label Switched Network,” Computer Communications Journal, Elsevier, Vol. 29, No. 16, pp. 3021-3026, November 2007.
126. **M. S. Obaidat**,” Guest Editorial: Advances in Communication Networking,” Computer Communications Journal, Elsevier, pp. 2995-2999, Vol. 20, No. 16, November 2007.
127. I. Woungang, S. Misra, and **M. S. Obaidat**,” On the Problem of Capacity Allocation and Flow Assignment in Self-Healing ATM Networks,” Computer Communications Journal, Elsevier, Vol. 29, No. 16, pp. 3169-3178, November 2007.
128. **M. S. Obaidat**, Y. Khelifi, N. Boudriga, “ Performance Analysis of a Dynamic QoS Scheme in Optical Label-Switched Networks,” Computer Communications Journal, Elsevier, Vol. 30, No. 16, pp. 3012-3026, 2007.

129. **M. S. Obaidat**,” Guest Editorial: Advances in Computer Communication Networks,” Computer Communication Journal, Elsevier, Vol. 30, No. 5, pp., 923-926, 2007.
130. **M. S. Obaidat**, P. Nicopolitidis and Jung-Shian Li,” Medium Access Control Protocols for Wireless LANs,” IEEE Wireless Communications, pp. 20-22, Vol. 15, No. 1, Feb 2008.
131. **M. S. Obaidat** and M. Marchese,” “Recent Advances in Global Navigation and Communication Satellite Systems,” IEEE Systems Journal, Vol. 2, No. 1, pp. 3-6, March 2008.
132. M. Hamdi, N. Boudriga and **M. S. Obaidat**,” Bandwidth-Effective Design of a Satellite-Based Hybrid Wireless Sensor Network for Mobile Target Detection and Tracking”, IEEE Systems Journal, Vol. 2, No. 1, pp. 74-82, March 2008.
133. S. K. Dhurandher, S. Misra, **M. S. Obaidat**, N. Bhardwaj, P. Goyal, and S. Aggarwa,” Node Stability-Based Location Updating in Mobile Ad-Hoc Networks, IEEE Systems Journal, Vol. 2, No. 2, pp. 237-247, Feb 2008.
134. C. Ramachandran, **M. S. Obaidat**, S. Misra, and F. Pena-Mora,” A Secure, and Energy-Efficient Scheme for Group-Based Routing in Heterogeneous Ad-Hoc Sensor Networks and Its Simulation Analysis,” Simulation: Transactions of the Society for Modeling and Simulation International, Vol. 84, No.2-3, pp. 131-146, Feb/March 2008.
135. **M. S. Obaidat**,” Guest Editorial: Performance Evaluation of Computer and Telecommunications Systems,” Simulation: Transactions of the Society for Modeling and Simulation International, Vol. 84, No. 2/3, pp. 59-60, 2008.
136. C. Ramachandran, S. Misra, and **M. S. Obaidat**, “A Probabilistic, Zonal Approach for Swarm-inspired Wildfire Detection Using Sensor Networks,” International Journal of Communication Systems, Wiley, Vol. 21, No. 10, pp. 1047-1073, October 2008.
137. R. Chandrasekar, S. Misra and **M. S. Obaidat**,”FORK: An Agent-based Intrusion Detection Scheme for Mobile Ad-Hoc Networks” Computer Communications Journal, Elsevier, Vol. 31, No. 16, pp. 3855-3869, October 2008.
138. N. Boudriga, **M. S. Obaidat** and F. Zarai,” Intelligent Network Functionalities in Wireless 4G Networks,” Computer Communications Journal, Elsevier, Vol. 31, No. 16, pp. 3752-3759, October 2008.

139. **M. S. Obaidat**,” Guest Editorial: Performance Evaluation of Communication Networks and Telecommunications Systems, Computer Communications Journal, Elsevier, Vol. 31, No. 16, pp. 3739-3740, October 2008.
140. **M. S. Obaidat** and Tarik Guelzim,” A New Security Access Scheme for WLANs and Its Performance Simulation Analysis,” Simulation: Transactions of the Society for Modeling and Simulation International, Vol. 84, No. 6, pp. 311-321, June 2008.
141. S. Dhurandher, S. Misra, and **M. S. Obaidat** and S. Khairwal,” UWSim: A Simulator for Underwater Wireless Sensor Networks,” Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol. 84, No. 7, pp. 327-338, July 2008. **Ranked No. 12 in the 50 Most-Frequently Read Articles** in the 84 volumes of the Journal, according to the October 2008 statistics.
142. C. Ramachandra, **M. S. Obaidat**, S. Misra, and F. Pena-Mora, “A Secure and Energy-Efficient Scheme for Group-Based Routing in Heterogeneous Ad Hoc Sensor Networks and Its Simulation Analysis,” Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol. 84, No. 2-3, pp. 131-146, February 2008. **Ranked No. 16 in the 50 Most-Frequently Read Articles** in the 84 volumes of the Journal, according to the July 2008 statistics.
143. S. Misra, K. Abraham, **M. S. Obaidat**, P. Krishna,” LAID: A Learning Automata Based Scheme for Intrusion Detection in Wireless Sensor Networks” Security and Communications Networks, Wiley, Vol. 2, No. 2, pp. 105-115, March/April, 2009.
144. S. Dhurandher, S. Misra, **M. S. Obaidat**, and N. Gupta,” An Ant Colony Optimization Approach for Reputation and Quality-of-Service-Based Security in Wireless Sensor Networks, Security and Communications Networks, Wiley, Vol. 2, No. 2, pp. 215-224, March/April, 2009.
145. **M. S. Obaidat**, P. Nicopolitidis, and J-S Li,” Security in Wireless Sensor Networks,” Security and Communications Networks, Wiley, Vol. 2, No. 2, pp. 101-103, March/April, 2009.
146. S. Dhurandher, **M. S. Obaidat**, S. Misra and S. Khairwal,”Efficient Data Acquisition in Underwater Wireless Sensor Ad-Hoc Networks,” IEEE Wireless Communications, Vol. 16, No. 6, pp. 70-78, December 2009.
147. P. G. Sarigiannidis, S. G. Petridou, G. I. Papadimitriou1, **M. S. Obaidat**, and A. S. Pomportsis,” Supporting Quality-of-Service Scheduling TT-FR WDM System,” IEEE Systems Journal, Vol.2, No. 4, pp. 525-535, December 2008.

148. S. Misra, V. Tiwari, **M. S. Obaidat**, “ LACAS: Learning Automata-Based Congestion Avoidance Scheme for Healthcare Wireless Sensor Networks,” IEEE Journal on Selected Area on Communications (JSAC), Vol. 27, No. 4, pp. 466-479, May 2009. **[Featured in IEEE ComSoc Technology News, July 2013].**
149. C. K. Liaskos, S. G. Petridou¹, G. I. Papadimitriou¹, P. Nicopolitidis, **M. S. Obaidat**, and A. S. Pomportsis,” Clustering-driven Wireless Data Broadcasting,” IEEE Wireless Communications, Vol. 16, No. 6, pp. 80-87, December 2009.
150. S. K. Dhurandher, S. Misra, **M. S. Obaidat**, V. Bansal, P. Singh and V. Punia, "EEAODR: An Energy-Efficient On-Demand Routing Protocol for Wireless Ad-Hoc Networks", International Journal of Communication Systems, Wiley, Vol. 22, No. 7, 2009, pp. 789-817.
151. **M. S. Obaidat**, P. Nicopolitidis, and J-S Li,” Guest Editorial: Security in Wireless Sensor Networks,” Security and Communications Networks Journal, Wiley, Vol. 2 No 2, pp. 101-103, Feb 2008.
152. S. Misra, S. K. Dhurandher, **M. S. Obaidat**, N. Nangia, N. Bhardwaj, P. Goyal, and S. Aggarwal, “Node Stability based location updating in MANETs”, IEEE Systems Journal, Vol. 2 No. 2, pp. 237 – 247, June 2008.
153. **M. S. Obaidat** and M. Sundararajan,” New Enhancements to the SOCKS Communication Network Security Protocol: Schemes and Performance Evaluation,” Journal of Systems and Software, Elsevier, Vol. 82, No. 12, pp. 1941-1949, December 2009.
154. **M. S. Obaidat** and T. Guelzim, “A Counter Disassociation Mechanism (CDM) for Wireless Local Area Networks and Its Performance Simulation Analysis,” IEEE Systems Journal, Vol.4, No. 1, pp. 57-64, March 2010.
155. **M. S. Obaidat**, N. Boudriga and Y. Khilifi,” A New Real-time TCP Management Technique over OLS Networks and Its Performance Evaluation,” accepted in the International Journal of Communication Networks and Parallel Systems, IJCNPS, Inderscience, 2008.
156. **M. S. Obaidat**, O. Lazzez, and N. Boudriga “Improving TCP QoS over OBS Networks: A Scheme Based on Optical Segment,” Simulation: Transactions of the Society for Modeling and Simulation International, 2008.
157. K. Dhurandher, S. Misra, **M. S. Obaidat**, V. Bansa, P. Singh and V. Punia,” EEAODR: An Energy-Efficient Ad-Hoc On-Demand Routing Protocol for Mobile Ad-

Hoc Networks,” International Journal of Communication Systems, Wiley, Vol. 22, No. 7, pp. 798-817, July 2009.

158. P. V. Krishna, S. Misra, **M. S. Obaidat** and V. Saritha,” An Efficient Approach for Distributed Dynamic Channel Allocation with Queues for Real Time and Non-Real Time Traffic in Cellular Network,” Journal of Systems and Software, Elsevier, Vol. 82, No. 7, pp. 1112-1124, 2009.
159. S. Misra, **M. S. Obaidat**, S. Dhurandher, B. Bhambhani and R. Agrawal, “Increased Information Availability Over Peer-to-Peer Networks Using Crawling,” accepted in IEEE Systems Journal, 2009.
160. P. V. Krishna, S. Misra, **M. S. Obaidat**, V. Saritha,” Virtual Backoff Algorithm: An Enhancement to 802.11 Medium Access Control to Improve the Performance of Wireless Networks,” IEEE Transactions on Vehicular Technology, Vol. 59, No. 3, pp. 1068-1075, March 2010.
161. **M. S. Obaidat**,” Performance Evaluation of Computer Networks,” Journal of Networks, Vol. 4, No. 9, pp. 803-804, Academy Publishers, 2009.
162. **M. S. Obaidat**,” Performance Evaluation of Computer and Telecommunication Systems, Simulation: Transactions of the Society for Modeling and Simulation International, SCS, Vol 85, No. 8, pp. 483-484, August 2009.
163. **M. S. Obaidat**,” Performance Evaluation of Computer and Communication Systems International Journal of Communication Networks and Distributed Systems (IJCND), Vol. 4, No. 1, pp. 1-3, 2010.
164. **M. S. Obaidat** and J. Filipe,” Guest Editorial: Performance Evaluation of Communication Networks,” Journal of Networks, The Academy Publisher, Vol. 4, No. 8, pp. 675-676, October 2009.
165. **M. S. Obaidat**,” Techniques and Protocols for Merging Wireless and Mobile Services,” International Journal of Communication Networks and Distributed Systems (IJCND), Inderscience, 2009.
166. P. Sarigiannidis, S. Petridou, G. I. Papadimitriou, **M. S. Obaidat**, “A New Approach to the Design of MAC protocols for WDM-EPON Systems,” accepted in IEEE Systems Journal, 2009.

167. **M. S. Obaidat**, “ Guest Editorial: Performance Evaluation of Computer Networks,” Journal of Networks, The Academy Publisher, Vol. 4, No. 9, pp. 803-804, November 2009.
168. W. Abdallah, M. Hamdi, N. Boudriga and **M. S. Obaidat**,” Contention Resolution for Transmission Control Protocol over Optical Burst-Switching Networks Using Random Segment Dropping, ” Simulation: Transactions of the Society for Modeling and Simulation International, Vol. 86, No. 4, pp. 217-227, 2010.
169. **M. S. Obaidat**, S. Misra, S. Dhurandher, K. Verma and P. Gupta,” A Low-Overhead Fault-Tolerant Routing Algorithm for Mobile Ad-Hoc Networks: A Scheme and Its Simulation Analysis,” Simulation Modeling Practice and Theory Journal, Elsevier, Vol. 18, No. 5, pp. 637-649, 2010.
170. **M. S. Obaidat**, S. Misra and G. I. Papadimitriou,” Adaptive and Learning Systems, (ALS),” IEEE Transactions on Systems, Man, and Cybernetics (SMC), Part B Vol. 40, No. 1, pp. 2-5, February 2010.
171. S. Misra, J. Oommen, S. Yanamandra, and **M. S. Obaidat**,” Random Early Detection for Congestion Avoidance in Wired Networks: A Discretized Pursuit Learning-Automata-Like Solution,” IEEE Transactions on Systems, Man, and Cybernetics (SMC)-Part B, Vol. 40, No. 1, pp. 66-76, February 2010.
172. **M. S. Obaidat** and T. Guelzim,” A Counter Disassociation Mechanism (CDM) for Wireless LANs: A Scheme and Its Performance Evaluation,” IEEE Systems Journal, Vol. 4, No. 1, pp. 57-64, March 2010.
173. P. G. Sarigiannidis, S. Petridou, G. I. Papadimitriou, and **M. S. Obaidat**,” IGFS: A New MAC Protocol for Dynamic Bandwidth Allocation on WDM-EPON,” IEEE Systems Journal, Vol. 4, No. 1, pp. 49-56, March 2010.
174. M. K. Denko, J. Tian, T. K. Nkwe and **M. S. Obaidat**, “Cluster-Based Cross-Layer Design for Cooperative Caching in Mobile Ad Hoc Networks “ IEEE Systems Journal, Vol. 3, No.4, pp. 499-508, December 2009.
175. S. Misra, S. Dhurandher, **M. S. Obaidat**, M. Gupta, K. Diwakar and P. Gupta” An Efficient Angular Routing Protocol for Inter-Vehicular Communication in Vehicular Ad Hoc Networks,” IET Communications, IET, Vol. 4, No. 7, pp. 826-836, 2010.
176. A. Marco, R. Casas, J. L. Sevillano, V. Coarasa, A. Asensio and **M.S. Obaidat**,” Synchronization of Multi-hop Wireless Sensor Networks at the Application layer,” IEEE Wireless Communications, Vol. 18, No. 1, pp. 82-88, Feb 2011.

177. S. Misra, S. K. Dhurandher; **M. S. Obaidat**, K. Verma and P. Gupta,” A Low-Overhead Fault-Tolerant Routing Algorithm for Mobile Ad-Hoc Networks: A Scheme and Its Simulation Analysis, “Simulation Modeling Practice and Theory Journal, Vol. 18, No. 5, pp. 637-649, Elsevier, May 2010.
178. **M. S. Obaidat**, S. Dhurandher,” “An Ant Swarm-Inspired Energy-Aware Routing Protocol for Wireless Ad-Hoc Networks, “ Journal of Systems and Software, Elsevier, Vol. 83, No. 11 pp. 2188-2199, Nov 2010.
179. **M. S. Obaidat**, Sanjay K. Dhurandher, P. Jindal, R. Chavli and S. Valecha, “PMH: A Stability Based Predictive Multi-Hop Routing Protocol for Vehicular Ad Hoc Networks”, International Journal of Internet Technology, Vol. 11, No. 4, pp. 437-449, July 2010.
180. I. Woungang, G. Ma, M. Denko, and H-C Chao, and **M. S. Obaidat**,” Survivable ATM Mesh Networks: Techniques and Performance Evaluation, Journal of Systems and Software, Elsevier, Vol. 83, No. 3, pp. 457-466, March 2010.
181. S. Misra, S. Dhurandher, **M. S. Obaidat**, K. Verma, and P. Gupta,”A low-overhead Fault-Tolerant Routing Algorithm for Mobile Ad hoc Networks: A Scheme and Its Simulation Analysis,” Simulation: Modelling Practice and Theory Journal, Vol. 18, No. 5, pp. 637-649, May 2010.
182. **M. S. Obaidat**, S. K. Dhurandher, D. Gupta, N. Gupta and A. Asthana,” DEESR: Dynamic Energy Efficient and Secure Routing Protocol for Wireless Sensor Networks in Urban Environments,” Journal of Information Processing Systems, Vol. 6, No. 3, pp. 269-294, KIPS, 2010.
183. S. K. Dhurandher, **M. S. Obaidat**, P. Dhurandher, K. Verma and P. Gupta, “FACES: Friend-based Ad Hoc Routing Using Challenges to Establish Security in MANETs Systems,” IEEE Systems Journal, Vol. 5, No. 2, pp. 176-188, June 2011.
184. S. Misra, M. P. Kumar, **M. S. Obaidat**, “Connectivity Preserving Localized Coverage Algorithm for Area Monitoring Using Wireless Sensor Networks,” Computer Communication Journal, Elsevier, Vol. 34, No. 12, pp. 1484-1496, 2011.
185. P. Nicopolitidis, G. I. Papadimitriou, P. Sarigiannidis, **M. S. Obaidat**, and A. S. Pomportsis” Adaptive Wireless Networks Using Learning Automata,” IEEE Wireless Communications, Vol. 18, No. 2, pp. 75-81, April 2011.
186. J. Entrialgo, D. F. García, J. García, M. García, P. Valledor and **M. S. Obaidat**, “

Dynamic Adaptation of Response-time Models for QoS Management in Autonomic Systems,” Journal of Systems and Software, Elsevier , Vol. 84, No. 5, pp. 810-820, May 2011.

187. M. Najjar, R. Rejeb, H. Rezig, and **M. S. Obaidat**, “Comparison of the Design Characteristics of MMI Wavelength Demultiplexers Using Different Approaches by Computing the Effective Index,” Journal of Networks, Academy, Vol. 6, No. 4, pp. 549-55, April 2011.
188. **M. S. Obaidat** and J. L. Sevillano,” Editorial: Performance Evaluation of Communication Networking,” Journal of Networks, Academy, Vol. 6, No. 4, pp. 533-535, April 2011.
189. A. O’Ree and **M. S. Obaidat**,”Security enhancements for UDDI,” Security and Communication Networks Journal, Wiley, Vol. 4, No. 8, pp. 871-888, 2011.
190. **M. S. Obaidat**, S. K. Dhurandher and K. Diwakar,” CASPER: Congestion Aware Selection of Path with Efficient Routing in Multimedia Networks, Journal of Information Processing, Vol. 7, No. 2, pp. 241-260, June 2011.
191. S. K. Dhurandher, **M. S. Obaidat**, A. Jaiswal, A. Tiwari and A. Tyagi,” VSRP: Vehicular Security through Reputation and Plausibility Checks,” IEEE Systems Journal, Vol. 8, No. 2, pp. 384-394, 2014.
192. I. Traore, I. Woungang, A. Ahmed and **M. S. Obaidat**,” Software Performance Modeling using the UML: A Case Study, accepted in Journal of Networks, Academy, 2011.
193. I. Traore, I. Woungang, A. Ahmed and **M. S. Obaidat**,” A Framework for Bottleneck Analysis in High-Performance Software Design,” Journal of Information Technology, Vol. 7, No. 1, 2011.
194. S. K. Dhurandher, **M S. Obaidat** and M. Gupta ” An Efficient Technique for Geocast Region Holes in Underwater Sensor Networks and Its Performance Evaluation,” Simulation: Modeling Practice and Theory, Elsevier, Vol. 19, No. 9, pp. 2102-2116, Sep 2011.
195. S. Misra and **M. S. Obaidat**,” Fire Monitoring and Alarm System for Underground Coal Mines Bord-and-Pillar Panel Using Wireless Sensor Networks,” Journal of Systems and Software, Elsevier, Vol. 85, No. 3, pp. 459-770, March 2011.

196. **M. S. Obaidat** and S. K. Dhurandher, and M. Gupta ” An Efficient Reactive and Angular – Optimized Link State Routing Protocol for Mobile Ad Hoc Networks,” accepted in IEEE Systems Journal, 2011.
197. J. Entrialgo, D. F García, J. García, M. García, P. Valledor, and **M. S. Obaidat**,” Dynamic adaptation of response-time models for QoS management in autonomic systems,” Journal of Systems and Software, Elsevier, Vol. 84, No. 5, pp. 810-820, May, 2011
198. I. Traore, I. Woungang, B. Khalilian, **M. S. Obaidat**, and A. Ahmed,” Dynamic Sample Size Detection in Learning Command Line Sequence for Continuous Authentication,” IEEE Transactions on Systems, Man and Cybernetics- Part B, Vol. 42, No. 5, pp. 1343-1356, 2012.
199. I. Woungang, F. O. Akinladejo, D. W. White, and **M. S. Obaidat**,” Coding-Error Based Defects in Enterprise Resource Planning Software: Prevention, Discovery, Elimination and Mitigation,” Journal of Systems and Software, Elsevier, Vol. 85, No. 7, pp. 1682-1798, July 2012.
200. B. Sayed, I. Traor’e, I. Woungang, and **M. S. Obaidat**,” Biometric Authentication using Mouse Gesture Dynamics,” IEEE Systems Journal, Vol. 7, No. 2, pp. 262-274, Feb 2013.
201. M. Najar and **M. S. Obaidat**,” A Reflection Spectrum Study and Polarization Effects on Apodized FBG, accepted in Journal of Networks,” Academy, 2011.
202. M. Obaidat, M. Ali and **M. S. Obaidat**,” QoS-Aware Multipath Communications over MANETs,” Journal of Networks,” Academy, Vol. 8, No. 1, pp. 26-36, 2013.
203. S. Dhurandher, **M. S. Obaidat**, and M. Gupta, “An acoustic communication based AQUA-GLOMO simulator for underwater networks,” Human-centric Computing and Information Sciences Journal, Springer, Vol. 2, No. 3, pp. 1-14, 2012.
204. S. K. Dhurandher, **M. S. Obaidat**, and M. Gupta,” Providing Reliable and Link Stability-based Geocasting Model in Underwater Environment,” International Journal of Communication Systems, Wiley, Vol. 25, No. 3, pp. 356-375, March 2012.
205. S. Bhattacharjee, P. Roy, S. Ghosh, S. Misra, and **M. S. Obaidat**,” Wireless Sensor

- Network-based Fire Detection, Alarming, Monitoring and Prevention System for Bord-and-Pillar Coal Mines,” Journal of Systems and Software, Elsevier, Vol. 85, No. 3, pp. 571-581, March 2012.
206. I. Traoré, I. Woungang, A. Ahmed, and **M. S. Obaidat**,” Software Performance Modeling using the UML: A Case Study,” Journal of Networks, Academy, Vo. 7, No. 1, pp. 4-20, January 2012.
 207. H-C. Wang, I. Woungang, C-W. Yao, A. Anpalagan, and **M. S. Obaidat**,” Energy-Efficient Task Scheduling Algorithm for Real-Time Multi-Processor Embedded Systems,” The Journal of Supercomputing, Springer, Vol. 62, No. 2, pp. 967-988, 2012.
 208. F. Zarai, I. Daly, **M. S. Obaidat**, and L. Kamoun, “Secured and Fast Handoff in Wireless Mesh Networks” Security and Communication Networks, Vol. 6, No. 5, pp. 644-657, Wiley, 2013.
 209. M. P. Anastasopoulos, T. Taleb, P. Cottis, and **M. S. Obaidat**, “Feedback Suppression in Multicast Satellite Networks Using Game Theory,” IEEE Systems Journal, Vol. 6, No. 4, pp. 657- 666, Dec 2012.
 210. **M. S. Obaidat** and F. Zarai,” Novel algorithm for Secured Mobility and IP Traceability for WLAN Networks,” Journal of Convergence, Vol. 3, No. 2, Dec 2012.
 211. G. Wu, X. Chen, and **M. S. Obaidat**,” A High Efficient Node Capture Attack Algorithm in Wireless Sensor Network based on Route Minimum Key Set,” Security and Communication Networks, Wiley, Vol.6, No. 2, pp. 230-238, 2013.
 212. F. Zarai, K. Ben Ali, **M. S. Obaidat**,and L. Kamoun,” Best Network Selection in Heterogeneous Wireless Networks, "accepted in the International Journal of Communication Systems, Wiley, 2012.
 213. I. Traore, I. Woungang, A. Ahmed, and **M. S. Obaidat**,” A Framework for Bottleneck Analysis in High-Performance Software Design,” accepted in Journal of Information Technology, 2012.
 214. X. Zhou, D. Zhang, Y. Yang and **M. S. Obaidat**,” Network-Coded Multiple-Source Cooperation Aided Relaying for Free-Space Optical Transmission Cooperation Aided Relaying for Free-Space Optical Transmission, International Journal of Communication Systems, Wiley, Vol. 25, No. 11, pp. 1465-1478, 2012.

215. **M. S. Obaidat** and J. L. Sevillano,” Editorial: Performance Evaluation of Computer Networks,” Journal of Networks, Academy, Vol. 7, No. 1, pp. 1-3, 2012.
216. V.G. Gasull, D.F. Larios, J. Barbancho, C. León, and **M.S. Obaidat**, “Wildfire Prediction Based on Fuzzy Inference System for Wireless Sensor Networks,” in ICETE and CCIS in M.S. Obaidat, J.L. Sevillano, and J. Filipe (Eds.), pp. 43—59, Springer, 2012.
217. **M. S. Obaidat**, P. Nicopolitidis, “Energy Aware Wireless Network Protocols,” IET Communications, Vol. 6, No. 14, pp. 2115–2119, 2012.
218. S. Misra, S. Dash, M. Khatua, A.V. Vasilakos, and **M.S. Obaidat**, “ Jamming in Underwater Sensor Networks: Detection and Mitigation,” IET Communications, Vol. 6, No. 14, pp. 2178-2188, 2012.
219. Y. Huang, **M. S. Obaidat**, N. Kato, and D. Deng, “Multimedia P2P Networking: Protocols, Solutions and Future Directions,” Peer-to-Peer Networking and Applications (PPNA) Journal, Vol. 5, No. 4, pp. 309-311, 2012.
220. S. Misra, V. Saritha, P. Venkata Krishna, and **M. S. Obaidat**,” Learning Automata as an Utility for Power Management in Smart Grids,” IEEE Communications, Vol. 51, No. 1, pp. 98-104, January 2013.
221. **M. S. Obaidat**, I. Woungang, S. Dhurandher, and V. Koo,” A Cryptography-Based Protocol Against Packet Dropping and Message Tampering Attacks on Mobile Ad Hoc Networks,” Security and Communication Networks Journal, Wiley, Vol. 7, No. 2, pp. 376-384, Feb 2014.
222. B. Sayed, I. Traore, I. Woungang, and **M. S. Obaidat**, “Biometric Authentication using Mouse Gesture Dynamics,” IEEE Systems Journal, Vol. 7, No. 2, pp. 262-274, 2013.
223. B. K. Saha, S. Misra, and **M. S. Obaidat**, “A Web-based Integrated Environment for Simulation and Analysis with NS-2,” IEEE Wireless Communications, Vol. 20, No. 4, pp. 109 – 115, 2013.
224. S. Misra, P. Krishna, V. Saritha, H. Agarwal, L. Shu and **M. S. Obaidat**, “Efficient Medium Access Control for Cyber-Physical Systems,” IEEE Systems Journal, Vo. 9, No. 1, pp. 22-30, March 2015.

225. **M. S. Obaidat**, D. Cascado Caballero, J. Sevillano, and J. Filipe: Guest Editorial, Journal of Networks, Academy, Vol. 8, No. 1, pp. 1-3, 2013.
226. I. Traore, I. Woungang, A. Ahmed, **M. S. Obaidat**,” A Framework for Bottleneck Analysis in High-Performance Software Design,” Journal of Internet Technology,” Journal of Internet Technology, Vol. 13, No. 3, PP. 369-384, 2012.
227. S. Misra, T. Ghosh, and **M. S. Obaidat**,” Routing Bandwidth Guaranteed Paths for Traffic Engineering in WiMAX Mesh Networks,” International Journal of Communication Systems, Wiley, Vol. 27, No. 11, pp. 2964-2984
228. S. Dhurandher, I. Woungang, **M. S. Obaidat**, K. Kumar, M. Joshi, and M. Verma,” A Distributed Adaptive Admission Control Scheme for Multimedia Wireless Mesh Networks,” IEEE Systems Journal, Vol. 9, No. 2, pp. 595-604, 2015.
229. S. Dhurandher, **M. S. Obaidat**, I. Woungang, P. Agarwall, A. Gupta and P. Gupta,” A Cluster-Based Load Balancing Algorithm in Cloud Computing System,” submitted to IEEE Transactions on Network and Service Management, 2012.
230. I. Woungang, S. Dhurandher, **M. S. Obaidat**, and R. Peddi” A DSR-Based Routing Protocol for Mitigating Blackhole Attacks on Mobile Ad Hoc Networks,” Security and Communication Networks Journal, Wiley, Vol. 9, No. 5, pp. 420-428, 2016.
231. Y. Jeong, **M. S. Obaidat**, J. Ma and L. T. Yang,” “Advanced Mathematics and Numerical Modeling of IoT (Internet of Things),” Journal of Applied Mathematics, Hindawi, Vol. 2015, 824891:1-824891:5, 2015.
232. S. Sarkar, S. Misra, B. Bandyopadhyay, C. Chakraborty, and **M. S. Obaidat**,” Performance Analysis of IEEE 802.15.6 MAC Protocol Under Non-ideal Channel Conditions and Saturated Traffic Regime” IEEE Transactions on Computers, Vol. 64, No. 10, pp. 2912-2925, 2015.
233. S. Misra, S. Das, M. Khatua, and **M. S. Obaidat**, “QoS-Guaranteed Bandwidth Shifting and Redistribution in Mobile Cloud Environment,” IEEE Transactions on Cloud Computing, Vol. 2, No. 2, pp. 181-193, 2014.
234. S. Vijayalakshmi, A. Anpalagan, D. P. Kothari, I. Woungang and **M. S. Obaidat**,” An Analytical Study of Resource Division and its Impact on Power and Performance of Multi-Core Processors,” Journal of Supercomputing, Springer, Vol. 68, No. 3, pp. 1265-1279, 2014.
235. **M. S. Obaidat**, S. Dhurandher, A. Jaiswall, A. Tiwari and A. Tyagi,” VSRP: Vehicular Security through Reputation and Plausibility Checks,” accepted in IEEE

Systems Journal, 2014.

236. F. Zarai, K. Ben Ali, **M. S. Obaidat**, and L. Kamoun, “ Adaptive Call Admission Control in 3GPP LTE Networks,” accepted in International Journal of Communication Systems, Wiley, 2012.
237. I. Elbouabidi, F. Zarai, **M. S. Obaidat**, and L. Kamoun, “ An Efficient Design and Validation Technique for Secure Handover Between 3GPP LTE and WLANs Systems,” Journal of Systems and Software, Elsevier, Vol. 91, pp. 163-173, 2014.
238. H-C. Wang, I. Woungang, C-W Yao, A. Anpalagan, and **M. S. Obaidat**, “Energy-Efficient Task Scheduling Algorithm for Real-Time Multi-Processor Embedded Systems,” submitted to Journal of Supercomputing, Elsevier, 2012.
239. S. Misra P. V. Krishna, S. Misra, D. Joshi, A. Gupta and **M. S. Obaidat**,” Secure Socket Layer (SSL) Certificate Verification Using Learning Automata,” Security and Communication Networks Journal, Wiley, Vol. 7, No. 11, pp. 1712-1718, 2014.
240. F. Zarai, I. Smaoui, **M. S. Obaidat**, and L. Kamoun,” Best Network Selection in Heterogeneous Wireless Networks,” submitted to Journal of Systems and Software, Elsevier, 2013.
241. X. Zhuang, Z. Wang, C. Chang, **M. S. Obaidat**, and Y. Zhu,” A Lightweight Password Authentication Scheme Based on Geometric Hashing Function,” submitted to Mobile Networks and Applications (MONET) Journal- Special Issue SI on Developments in Security and Privacy-preserving mechanisms for Future Mobile Communication, 2013.
242. A. Roy, P. Kar, S. Misra, and **M. S. Obaidat**, “D3: Distributed Approach for the Detection of Dumb Nodes in Wireless Sensor Networks,” accepted in International Journal of Communication Systems, Wiley, Vol. 30, No. 1, e2913, Jan 2017.
243. Y. Najaflou, B. Jedari, F. Xia, L. T. Yang, and **M. S. Obaidat**,”Safety Challenges and Solutions in Mobile Social Networks,” IEEE Systems Journal, Vol.9, No.3, pp.834-854, Sept. 2015.
244. T-Y Wu , and **M. S. Obaidat** and H-L Chan,” QualityScan Scheme for Load Balancing Efficiency in Vehicular Ad Hoc Networks (VANETs), “Journal of Systems and Software, Elsevier, Vol. 104, pp. 60-68, June 2015.

245. S. Kranounakis, I. Demetropoulos, A. Michalas, **M. S. Obaidat**, P. Sarigiannidis, and M. Louta,” A Robust Reputation-based Computational Model for Trust Establishment in Pervasive Systems” Vol. 9, No. 3, pp. 878-891, IEEE Systems Journal, 2015.
246. F. Xia, R. Hao, **M. S. Obaidat**, L. T. Yang, J. Ma, and R. Gao,” Improving IEEE 802.15.4 Slotted CSMA/CA for Cyber-Physical Systems in Smart Grid,” submitted to IEEE Transactions on Industrial Electronics, 2013.
247. TY. Wu, **M. S. Obaidat**, and H. Chan,” QualityScan Scheme for Load Balancing Efficiency in Vehicular Ad Hoc Network (VANET) Systems,” submitted to IEEE Systems Journal, 2013.
248. I. Traore, I. Woungang, **M. S. Obaidat**, and Y. Nakkabi,” Online risk-based authentication using behavioral biometrics,” Multimedia Tools and Applications Journal, Springer, Vol. 71, No. 2, pp. 575-605, 2014.
249. W. Lai, Y-U. Chen, T-Y, Wu, and **M. S. Obaidat**,” Towards a Framework for Large-Scale Multimedia Data Storage and Processing on Hadoop Platform,” accepted in Journal of Supercomputing, Springer, Vol. 68, No. 1, pp 488-507, April 2014.
250. S. Dhurandher, **M. S. Obaidat**, and M. Gupta” Energized Geocasting Model for Underwater Wireless Sensor Networks,” Simulation Modeling Practice and Theory Journal, Elsevier, Vol. Vol. 7, pp. 125-138, 2013.
251. J. Kim, Y. Mu, and **M. S. Obaidat**,” Advanced Computer Mathematics-based Cryptography and Security Technologies,” International Journal of Computer Mathematics, Taylor and Francis, Vol. 90, No. 12, pp. 2512-2514, 2013.
252. R. BarthwalS. Misra and **M. S. Obaidat**,” Finding Overlapping Communities in a Complex Network of Social Linkage and Internet of Things,” Journal of Supercomputing, Springer, Vol. 66, No. 3, pp. 1749-1772, 2013.
253. **M. S. Obaidat**, P. Nicopolitidis, and W. Han,” Security of e-Systems,” Security and Communication Journal, Wiley, Vol. 7, No. 2, pp. 322-324, 2014.
254. S. Misra, V. Krishna, K. Kalaiselvan, V. Saritha and **M. S. Obaidat**,” Learning Automata-Based QoS Framework for Cloud IaaS,’ IEEE Transactions on Network and Service Management, Vol. 11, No. 1, pp. 15 – 24, 2014.

255. A. Roy, P. Kar, S. Misra and **M. S. Obaidat**,” Existence of Dumb Nodes in Stationary Wireless Sensor Networks,” Journal of Systems and Software, Vol. 91, pp. 135-146, 2014.
256. N. Omheni, F. Zarai, **M. S. Obaidat**, K.-F. Hsiao and L. Kamoun, “A Novel MIH-based Approach for Vertical Handover over Heterogeneous Wireless Networks”, International Journal of Communication Systems, Wiley, Vol. 27, No. 5, pp, 811–824, May 2014.
257. C-H. Hsu, J. Ma, and M. S. Obaidat,” Dynamic Intelligence Towards Merging Cloud and Communication Services,” Information Systems Frontiers, Vol. 16, No. 1, pp. 1-5, 2014.
258. S.Vijayalakshmi, A. Anpalagan, D. P. Kothari, I. Woungang and **M. S. Obaidat**, “A Comparative Simulation Study on the Power-Performance of Multi-Core Architecture,” Journal of Supercomputing, Springer, Vol. 70, No. 1, pp. 465-487, 2014.
259. S. Samoui, F. Zarai, **M. S. Obaidat**, K.F. Hsiao, and L. Kamoun,” Improved IPsec Tunnel Establishment for 3GPP-WLAN Interworking,” International Journal of Communication Systems, Wiley, Vol. 28, No. 6, pp. 1180-1199, March 2015.
260. N. Omheni, F. Zarai, **M. S. Obaidat**, I. Smaoui, and L. Kamoun, “A MIH-based Approach for Best Network Selection in Hetrogenious Wireless Networks,” Journal of Systems and Software, Elsevier, Vol. 92, pp. 143-156, 2014.
261. V. Saravanan, A. Anpalagan, D. P. Kothari, I. Woungang, and **M. S. Obaidat**,” An analytical study of resource division and its impact on power and performance of multi-core processors,” Journal of Supercomputing, Vol. 68, No. 3, pp. 1265-1279, March 2014.
262. I. Woungang, F-H Tseng, Yi-H. Lin, L-Dr Chou, H-C Chao, and **M. S. Obaidat**,” Enhancing the Performance of Chord Lookup in Mobile Peer-to-Peer Networks” accepted in IEEE Systems Journal, 2014.
263. V. Saravanan, A. Anpalagan, D. P. Kothari, I. Woungang, and **M. S. Obaidat**,” An Analytical Study of Resource Division and Its Impact on Power and Performance of Multi-core processors,’ The Journal of Supercomputing, Springer, Vol. 68, No. 3, pp. 1265-1279, 2014.
264. J. Park, **M. S. Obaidat** and V. Loia,” Smart Devices and Spaces for Pervasive Computing, Journal of Systems Architecture, Elsevier, pp. 668-672, Vol. 60, No. 8, Sep 2014.
265. S. Bera, S. Misra, and **M. S. Obaidat**, “Economics of Customer’s Decisions in Smart

- Grid”, *IET Networks*, IET, Vol. 4, No., pp. 37-43, March 2015.
266. F. Zarai, K. Ali, **M. S. Obaidat**, and L. Kamoun,” Adaptive Call Admission Control in 3GPP LTE Networks,” *International Journal of Communication Systems*, Wiley, Vol. 27, No. 10, 2014.
 267. A. Singh, S. Misra, and **M. S. Obaidat**,” Mils-Cloud: A Sensor-Cloud Based Architecture System for the Integration of Military Tri-Services Operations and Decision Making.” *IEEE Systems Journal*, Vol. 10, No. 2, pp. 628-636, 2016.
 268. S. Chatterjee, S. Misra and **M. S. Obaidat**,” On Theoretical Modeling of Sensor-Cloud: A Paradigm Shift from Wireless Sensor Network,” *IEEE Systems Journal*, 2014, DOI: 10.1109/JSYST.2014.2362617.
 269. Omheni, F. Zarai, **M. S. Obaidat**, K. F. Hsiao, and L. Kamoun,” A Novel Media Independent Handover-based Approach for Vertical Handover over Heterogeneous Wireless Networks,” *International Journal of Communication Systems*, Wiley, Vol. 27, No. 5, pp. 811-824, 2014.
 270. I. El Bouabidi, F. Zarai, **M. S. Obaidat**, and L. Kamoun,” Design and analysis of secure host-based mobility protocol for wireless heterogeneous networks,” *Journal of Supercomputing*, Springer, Vol. 70, No. 3, pp 1036-1050, Dec 2014.
 271. N. Kumar, S. Misra, **M. S. Obaidat**, J. Rodrigues, B. Pati, “ Networks of Learning Automata for the Vehicular Environment: A Performance Analysis Study,” *IEEE Wireless Communications*, Vol. 21, No. 6, pp. 41-47, 2014.
 272. N. Kumar, S. Misra and **M. S. Obaidat**,”Collaborative Learning Automata-Based Routing for Rescue Operations in Dense Urban Regions Using Vehicular Sensor Networks” *IEEE Systems Journal*, Vol. 9, No. 3, pp. 1081-1090, 2015.
264. N. Kumar, S. Misra, and **M. S. Obaidat**,”Collaborative Learning Automata-Based Routing for Rescue Operations in Dense Urban Regions Using Vehicular Sensor Networks” accepted in *IEEE Systems Journal*, 2014.
273. W. Mansouri, K. Mnif, F. Zarai, **M. S. Obaidat** and L. Kamoun,” Capacity Analysis in the Next Generation Wireless Networks Based on SINR Constraints,” *Journal of Networks, Academy*, Vol. 10, No. 1, pp. 29-38, 2015.
 274. S. Misra and **M. S. Obaidat**,” Distributed Home Energy Management System with Storage in Smart Grid Using Game Theory,” *IEEE Systems Journal*, 2015. DOI: 10.1109/JSYST.2015.2421941.
 275. S. Islam, M. Khan, **M. S. Obaidat**, and G. P. Biswas, "Provably Secure Pairing-free Identity-based Partially Blind Signature Scheme and Its Application in Online e-cash System" submitted to *IEEE Systems Journal*, 2014.
 276. N. Kumar, S. Misra, J. Rodrigues, and **M. S. Obaidat**, “Coalition Games for Spatio-Temporal Big Data in Internet of Vehicles Environment: A Comparative Analysis,"

- IEEE Internet of Things Journal, Vol. 2, No. 4, pp. 310-320, August 2015.
277. P. Sarigiannidis, M. Louta, G. Papadimitriou, P. Nicopolitidis, **M.S. Obaidat**, and A. Pomportsis, "ADAMAS: An Efficient Adaptive Mapping Scheme for Downlink Sub-Frame in Mobile WiMAX Access Networks," Submitted to Journal of Computer Networks, Elsevier, 2013.
 278. S. Misra, A. Mandal, T. Ojha, M. Dash, and **M. S. Obaidat**, "Effects of Wind-induced Near-surface Bubble Plumes on the Performance of Underwater Wireless Acoustic Sensor Networks" *IEEE Sensors Journal*, 2015. DOI: 10.1109/JSEN.2015.2443012.
 279. R. Amin, SK Islam, G. P. Biswas, M. K. Khan, and M. S. Obaidat, "Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System, Journal of Medical Systems, Vol. 39, No. 11, pp. 137-157, 2015.
 280. **M. S. Obaidat** and Pere Vile, "Guest Editorial: Performance Modeling and Evaluation of Computer and Telecommunication Systems," Journal of Networks, Academy, Vol. 10, No. 1, pp. 1-3, January 2015.
 281. M. S. Farash, S. K. Hafizul Islam, **M. S. Obaidat**, "A provably secure and efficient two-party password-based explicit authenticated key exchange protocol resistance to password guessing attacks," Concurrency and Computation: Practice and Experience, Vol. 27, No. 17, pp. 4897-4913, 2015.
 282. S. Misra, P. V. Krishna, V. Saritha, H. Agarwal, L. Shu, and **M. S. Obaidat**, "Efficient Medium Access Control for Cyber-Physical Systems With Heterogeneous Networks," IEEE Systems Journal, Vol. 9, No. 1, pp. 22-30, January 2015.
 283. S. Smaoui, **M. S. Obaidat**, F. Zarai, and K.F. Hsiao, "A New Secure and Efficient Scheme for Network Mobility Management," accepted in Security and Communications Networks, Wiley, 2014.
 284. S. Islam, M. Khan, **M. S. Obaidat**, F. Muhaya "Provably Secure and Anonymous Password Authentication Protocol for Roaming Service in Global Mobility Networks Using Extended Chaotic Maps," Wireless Personal Communications Journal, Springer, Vol. 84, No. 3, pp. 2013–2034, 2015.
 285. W. Mansouri, K. Mnif, F. Zarai, **M. S. Obaidat** and L. Kamoun, "A New Multi-RAT Scheduling Algorithm for Heterogeneous Wireless Networks," Journal of Systems and Software, Elsevier, Vol. 115, pp. 174-184, 2016.
 286. S. Islam and **M. S. Obaidat**, "Design of Provably Secure and Efficient Certificateless Blind Signature Scheme Using Bilinear Pairing," Security and Communication Networks Journal, Wiley, Vol. 8, No. 18, pp. 4319-4332, 2015.
 287. T-Yu Wu, **M. S. Obaidat**, and H-L. Chan, "QualityScan Scheme for Load Balancing Efficiency in Vehicular Ad Hoc Networks (VANETs), accepted in Journal of Systems

and Software, Elsevier, 2015.

288. A. Gharsallah, N. Omheni, F. Zarai, **M. S. Obaidat**, and K-F. Hsiao,” Network Selection in Heterogeneous Wireless System Environments, *Journal of Networks*, Vol. 10, No. 12, pp. 633-641, 2015.
289. SK Islam, M. S. Farashb, G. P. Biswasc, M. Khand, and **M. S. Obaidat**,” A Pairing-free Certificateless Digital Multisignature Scheme Using Elliptic Curve Cryptography,” *International Journal of Computer Mathematics*, Taylor and Francis, Vol. 97, No. 1, pp. 39-55, 2017.
290. J. Ren, G. Wu, X. Li, P. Pirozmand and **M. S. Obaidat**,” Probabilistic response-time analysis for real-time systems in body area sensor networks, *International Journal of Communication Systems*, Wiley, Vol. 28, No. 16, pp. 2145-2166, 2015.
291. I. El Bouabidi, F. Zarai, **M. S. Obaidat**, and L. Kamoun,”A Secure Host-based Mobility Protocol for Wireless Heterogeneous Networks,” Submitted to the *Computing Journal*, Springer, 2014.
292. P. Nicopolitidis, **M. S. Obaidat**, G. Papadimitriou, P. Sarigiannidis,” A Learning-Automata-based Cognitive MAC Protocol for Bursty PU Environments,” Submitted to *IEEE Communications Letters*, 2014.
293. I. kakalou, G. Papadimtiou, P. Nicoploitidis, P. Sarigiannidis, and **M. S. Obaidat**, “ A Learning-Automata-based Cognitive MAC Protocol for Bursty PU Environments Corresponding,” Submitted to *IEEE Wireless Communications Letters*, 2014.
294. Kakalou, P. Nicopolitidis, P. Sarigianidis and **M. S. Obaidat**“ A Learning Automata-based Cognitive MAC Protocol for Bursty PU Environments” Submitted to the *IEEE Transactions on Cognitive Communications and Networking*, 2015.
295. S. Smaoui, **M. S. Obaidat**, F. Zarai and K. F. Hsiao,” A New Secure and Efficient Scheme for Network Mobility Management,” *Security and Communications Networks Journal*, Wiley, Vol. 8, No. 7, pp. 1155–1430, May 2015.
296. S. Moulik, S. Misra, and **M. S. Obaidat**,” Smart-Evac: Big Data-Based Decision Making for Emergency Evacuation. *IEEE Cloud Computing*, Vol. 2, No. 3, pp. 58-65, 2015.
297. Misra, S. Goswami, C. Taneaia, A. Mukherjee and **M. S. Obaidat**,” A PKI Adapted Model for Secure Information Dissemination in Industrial Control and Automation 6LoWPANs,” *IEEE Access*, Vol. 3, pp. 875-889, 2015.
298. P. Li, T-Y. Wu, X. Li, H. Luo and **M. S. Obaidat**,” Constructing Data Supply Chain based on Layered PROV,” accepted in *Journal of Supercomputing*, Springer, 2016.
299. Mzoughi, F. Zarai, and M. S. Obaidat,” 3GPP LTE-Advanced Congestion Control

Based on MIH Protocol,” submitted to IEEE Systems Journal, 2014.

300. Y-S Jeong, **M. S. Obaidat**, J. Ma, L. T. Yang, “ Advanced Mathematics and Numerical Modeling of IoT,” accepted in Journal of Applied Mathematics, Hindawi, 2014.
301. R. Barthwal, S. Misra, M. Guizani, and **M. S. Obaidat**, “Security in Internet of Things: A Survey,” Submitted to IEEE Internet of Things (IoT) Journal, 2013.
302. P. V. Krishna, S. Misra, D. Joshi, A. Gupta, **M. S. Obaidat**, "Secure Socket Layer Certificate Verification Using Learning Automata", Security and Communication Networks, Wiley, Vol. 7, No. 11, 2014, pp. 1712-1718.
303. S. Misra, S. Das, and **M. S. Obaidat**, “Context-Aware Quality of Services in Wireless Sensor Networks," IEEE Communications, Vol. 52, No. 6, pp. 16-23, 2014.
304. A. Gharsallah, N. Omheni, F. Zarai, *M. S. Obaidat* and KF Hsiao,” Network Selection in Heterogeneous Wireless System Environments,” accepted in Journal of Networks, Academy Publisher, 2015.
305. S. Misra, S. Singh, M. Khatua, and **M. S. Obaidat**,” Extracting Mobility Pattern from Target Trajectory in Wireless Sensor Networks,” International Journal of Communication Systems, Wiley, Vol. 28, No. 2, pp. 213-230, January 2015.
306. Woungang, F-H Tseng, Y-H Lin, L-D Chou, H-C. Chao, and **M. S. Obaidat**, “MR-Chord: Improved Chord Lookup Performance in Structured Mobile P2P Networks,” IEEE Systems Journal, Vol. 9, No. 3, pp. 743-751, 2015.
307. S. Misra and **M. S. Obaidat**,” Temporal-Correlation Aware Dynamic Self-Management of Wireless Sensor Networks" accepted in IEEE Transactions on Industrial Informatics, 2016.
308. F. Zarai and **M. S. Obaidat**,” Secure and Reliable Multi-path Routing Protocol for Multi-hop Wireless Networks" accepted in Ad Hoc & Sensor Wireless Networks Journal, Old City Publishing, 2016.
309. N. Kumar, S. Misra, J. Rodrigues, and **M. S. Obaidat**,” Coalition Games for Spatio-Temporal Big Data in Internet of Vehicles Environment: A Comparative Analysis,” Submitted to IEEE Internet of Things Journal, 2014.
310. **M. S. Obaidat**, and P. Vela, “ Guest Editorial: Special Issue on Performance Modeling and Evaluation of Computer and Telecommunication Systems,” Journal of Networks, Academy Publisher, Vol. 10, No. 1, pp. 1-3, January 2015.
311. S. Moulik, S. Misra and **M. S. Obaidat**,” "SMART-EVAC: A Big Data-based Decision Making System for Emergency Evacuation", IEEE Cloud Computing Journal, Vol. 2, No.

- 3, pp. 58-65, 2015. (Selected as “**Featured Article**”).
312. J. Ren, G. Wu, X. Li, P. Pirozmand, and **M. S. Obaidat**, “Probabilistic Response-time Analysis for Real-Time Systems in Body Area Sensor Networks,” Int. J. Communication Systems, Wiley, Vol. 28, No. 16, pp. 2145-2166, 2015.
 313. S. Misra, S. Goswami, A. Mukherjee and **M. S. Obaidat**,” A PKI Adapted Model for Secure Information Dissemination in Industrial Control and Automation 6LoWPANs,” IEEE Access, Vol. 3, pp. 875-889, May 2015.
 314. S. Misra K. Mandal, T. Ojha, M. K. Dash and **M. S. Obaidat**” Effects of Wind-induced Near-surface Bubble Plumes on the Performance of Underwater Wireless Acoustic Sensor Networks,” accepted in IEEE Sensors, 2015.
 315. SK H. Islam, **M. S. Obaidat**, and R. Amin,” An Anonymous and Provably Secure Authentication Scheme for Mobile User,” International Journal of Communication Systems, Vol. 29, No. 9, pp. 1529-1544, 2016.
 316. S. N. Das, S. Misra, B. E. Wolfinger and **M. S. Obaidat**,” Temporal-Correlation Aware Dynamic Self-Management of Wireless Sensor Networks, “ accepted in IEEE Transactions on Industrial Electronics, 2016
 317. T. Maitra, **M. S. Obaidat**, SK. Isalm, D. Giri and R. Amin,” Security analysis and Design of an Efficient ECC-based Two-Factor Password Authentication Scheme" accepted in Security and Communication Networks Journal, Wiley, Vol. 9, pp. 4166-4188, Nov 2016.
 318. K. B. Ali, F. Zarai, **M. S. Obaidat**, L. Kamoun,”Enhanced IEEE 802.21 Handover Design for QoS Support in Next Generation Wireless Networks,” Ad Hoc & Sensor Wireless Networks Journal, Vol. 34, No. 1-4, pp. 221-243, 2016.
 319. S. Das, S. Misra and **M. S. Obaidat**,” Quality-assured Secured Load Sharing in Mobile Cloud Networking Environment" Accepted in IEEE Transactions on Cloud Computing, 2015.
 320. C. Lin, Y. Wu, Z. Liu, **M. S. Obaidat**, C. W. Yu and G. Wu, ” GTCharge: A Game Theoretical Collaborative Charging Scheme for Wireless Rechargeable Sensor Networks,” accepted in Journal of Systems and Software, Elsevier, 2016
 321. R. Amin, S. Islam G. Biswas, M. Khan and **M. S. Obaidat**,” Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System,” Journal of Medical Systems, Vol. 39, No. 11, pp. 1-20, Springer, 2015.
 322. Chi Lin, Guowei Wu, **M. S. Obaidat**, and Chang Wu Yu,” Clustering and Splitting Charging Algorithms for Large Scaled Wireless Rechargeable Sensor Networks,” Journal of Systems and Software, Elsevier, Vol. 113, pp. 381-394, 2016.

323. M. L. Brocardo, I. Traore, I. Woungang, and M. S. Obaidat, “Stylometric Authorship Verification using Features Merging and Deep Machine Learning Techniques,” Submitted to IEEE Transactions on Cybernetics, 2015.
324. L. Yang, R. Ranjan, N. Kumar, and **M. S. Obaidat**, “Energy Consumption of Cloud Data Centers: An Optimization Strategy using Container-as-a-Service “submitted to IEEE Transactions on Parallel and Distributed Systems, 2016.
325. W. Mansouri, K. Mnif, F. Zarai, **M. S. Obaidat**, and L. Kamoun, ‘Capacity Analysis in the Next Generation Wireless Networks Based on SINR Constraints, Journal of Networks, Academy Publisher, Vol. 10, No. 1, pp. 29-38, January 2015.
326. N. Kumar, R. Iqbal, S. Misra, J. Rodrigues, and **M. S. Obaidat**“Bayesian Cooperative Coalition Game as-a-Service for RFID-Based Secure QoS Management in Mobile Cloud,” accepted in IEEE Transactions on Emerging Topics in Computing, 2015.
327. A. Teotia, S. K. Dhurandher, I. Woungang, **M. S. Obaidat**, S. Gupta, and J. Rodrigues,” An Altruism-based Trust-Dependent Message Forwarding Protocol for Opportunistic Networks,” accepted in the International Journal of Communication Systems, Wiley, 2016.
328. SK. Isalm and **M. S. Obaidat**,” Security analysis and design of an efficient ECC-based two-factor password authentication scheme,” accepted in Security and Communication Journal, Wiley, 2016.
329. T. Maitra, **M. S. Obaidat**, R. Amon, S. Islam, S. Chaudhry, and D. Giri” A Robust ElGamal Based Password Authentication Protocol Using Smart-Card for Client-Server Communication,” accepted in International Journal of Communication Systems, Wiley, 2016.
330. J. H. Park, **M. S. Obaidat** and H-C Chao,” User Experience and Quality-of-Service in Internet of Things: Practice and Trends,” Wireless Personal Communications, Springer, Vol. 91, pp. 1549- 1554, Dec 2016.
331. P. Kar, S. Misra and **M. S. Obaidat**,” RILoD: Reduction of Information Loss in a Self-Adaptive WSN System in the Presence of Dumb Nodes,” submitted to ACM Transactions on Autonomous and Adaptive Systems, 2017.
332. A. Mondaly, L. S. Pately, S. Misra and **M. S. Obaidat**,”DEMANDS: Distributed Energy Management Using Non-cooperative Scheduling in Smart Grid,” submitted to IEEE Systems Journal, 2016.
333. Z. Lin, T-Y. Wu, Y. Sun , J. Xu and **M. S. Obaidat**,” A TAS-Model based Algorithm for Rule Redundancy Detection and Scene Scheduling in Smart Home Systems,”

- accepted in IEEE Systems Journal, 2016.
334. A. Kumar, S. Dhurandher, I. Woungang, **M. S. Obaidat**, S. Gupta and J. Rodrigues," An Altruism-based Trust-Dependent Message Forwarding Protocol for Opportunistic Networks" accepted in International Journal of Communication Systems, Wiley, 2016.
335. W. Hou, Z. Ning, L. Guo, Z. Chen, and **M. S. Obaidat**, "Novel Framework of Risk-Aware Virtual Network Embedding in Optical Data Center Network Systems," Accepted in IEEE Systems Journal, 2017.
336. Z. Longning F. Xia, X. Pingh, Z. Chen, and **M. S. Obaidat**," Social-oriented Adaptive Transmission in Opportunistic Internet of Smartphones," accepted in IEEE Transactions on Industrial Informatics, 2016.
337. R. P. Barnwal, S. Bharti, S. Misra, **M. S. Obaidat**, "UCGNet: Wireless Sensor Network-Based Active Aquifer Contamination Monitoring and Control System for Underground Coal Gasification", *International Journal of Communication Systems*, Wiley, October 2014, DOI: 10.1002/dac.2852
338. C. Lin, T. Qiu, **M. S. Obaidat**, C. Wu Yu, and G. Wu, "MREA: A Minimum Resource Expenditure Node Capture Attack in Wireless Sensor Networks," accepted in Security and Communication Networks, Wiley, 2016.
339. A. Mandal, S. Misra, T. Ojha, M. Dash and **M. S. Obaidat**," Oceanic Forces and their Impact on the Performance of Mobile Underwater Acoustic Sensor Networks," International Journal of Communication Systems, Wiley, 2014 October 2014, DOI: 10.1002/dac.2882.

D. Refereed Conference Papers (351 Papers):

1. F. Zarai, **M. S. Obaidat** and I. Daly, "Hybrid IP Traceback Approach for Heterogeneous Wireless Networks" accepted in the 2017 IEEE Inetrntaional Conference on Communications (ICC 2017)-Mobile and Wireless Networking Symposium (MWN 2017), 2017.
2. A. Belghith, W. Amal, B. Cousin, and **M. S. Obaidat**," "Synchronized Power Saving Mechanism for WiMAX Networks" accepted in the 2017 IEEE Inetrntaional Conference on Communications (ICC 2017)-Mobile and Wireless Networking Symposium (MWN 2017), 2017.
3. P. Sarigiannidis, A. Sarigiannidis, T. Lagkas, **M. S. Obaidat**, T. Zygiridis, N. Kantartzis" Connectivity and Coverage in Machine-Type Communications," accepted in the 2017 IEEE Inetrntaional Conference on Communications (ICC 2017)- SAC Symposium E-Health Track 2017, 2017.
4. Y. Guo, Y. Sun, T-Y. Wu, **M. S. Obaidat** and W-T. Lee," Monitoring the status of iBeacons with Crowd Sensing" accepted in the 2017 IEEE Inetrntaional Conference on Communications (ICC 2017)-Mobile and Wireless Networking Symposium (MWN 2017), 2017.
5. P. Li, H. Luo, T-Y. Wu, and **M. S. Obaidat**," QoS Prediction Method for Data Supply

- Chain based on Context" accepted in the 2017 IEEE International Conference on Communications (ICC 2017)- Communications Software, Services, and Multimedia Applications Symposium (CSSMA 2017), 2017.
6. H. Sun, H. Luo, T-Y. Wu, and **M. S. Obaidat** "Adaptive and Safe Presentation Strategy of Image Information on Social Platform" accepted in the 2017 IEEE International Conference on Communications (ICC 2017)- SAC Symposium Social Networking Track, 2017.
 7. P. V. Krishna, S. Misra, V. Saritha, N. Dasari, and **M. S. Obaidat**, "An Efficient Learning Automata based Taskoffloading in Mobile Cloud Computing Environments," accepted in the 2017 IEEE International Conference on Communications (ICC 2017)- Mobile and Wireless Networking Symposium (MWN 2017), 2017.
 8. V. Saritha, P. V. Krishna, S. Misra, and **M. S. Obaidat**, "Learning Automata based Optimized Multipath routing using Leapfrog Algorithm for VANETs," accepted in the 2017 IEEE International Conference on Communications (ICC 2017)-Mobile and Wireless Networking Symposium (MWN 2017), 2017.
 9. P. V. Krishna, **M. S. Obaidat**, S. Misra, S. Yenduri, and K-F Hisao, "Designing and Prototyping Utility Management Using Hybrid Wireless-Wired Network Technologies," Proceedings of the 2017 IEEE International Conference on Platform Technology and Service, PlatCon-2017, pp. 81-87, Busan, Korea, 2017.
 10. SK. Islam, **M. S. Obaidat**, "Design of a Certificateless Designated Server based Searchable Public Key Encryption Scheme," Proceedings of the 2017 International Conference on Mathematics and Computing, Haldia, W. Bengal, India, Jan 2017.
 11. S. S. Roy, A. Mallik, R. Gulati, **M. S. Obaidat**, and P. V. Krishna, "A Deep Learning Based Artificial Neural Network Approach for Intrusion Detection," Proceedings of the 2017 International Conference on Mathematics and Computing, Haldia, W. Bengal, India, Jan 2017.
 12. S. K. Dhurandher, A. Kumar, I. Woungang, and **M. S. Obaidat**, "Supernova and Hypernova Misbehavior Detection Scheme for Opportunistic Networks," Proceedings of the 31-st IEEE International Conference on Advanced Information Networking and Applications, Taipei, Taiwan, March 2017.
 13. C. Y. Meshram, P. L. Power, and **M. S. Obadat**, "An UF-IBSS-CMA Protected Online/Offline Identity-based Short Signature Technique using PDL," Proceedings of the 2016 IEEE International Conference On Advances In Computing & Communications (ICACC), Volume 93, Pages 847-853, Kochi, India, 2016.
 14. I. Daly, F. Zarai, **M. S. Obaidat**, K.F. Hsiao and L. Kamoun, "HITH: Hybrid IP Traceback for Heterogeneous Wireless Networks," Proceedings of 2016 IEEE International Conference on Wireless Information Network Systems, WINSYS 2016, - Part of ICETE 2016, pp. 84-93, Lisbon, Portugal, July 2016.
 15. M. Houda, F. Zarai, **M. S. Obaidat**, B. Sadoun and L. Kamoun, "Cooperative Radio Resources Allocation in LTE_A Networks within MIH Framework: A Scheme and Simulation Analysis," Proceedings of the 2016 International Conference on Simulation and Modeling Methodologies, Technologies and Applications, SIMULTECH 2016, pp. 138-145, Lisbon, Portugal, July 2016.

16. V. Kumar, S. K. Dhurandher, B. and **M. S. Obaidat**, " Channel Allocation in Cognitive Radio Networks using Evolutionary Technique," Proceedings of 2016 IEEE International Conference on Wireless Information Network Systems, WINSYS 2016, - Part of ICETE 2016, pp. 106-112, Lisbon, Portugal, July 2016.
17. P. V. Krishna, D. Nagaraju and V. Saritha, S. Misra, and **M. S. Obaidat**, " Learning Automata based Decision Making Algorithm for Task Offloading in Mobile Cloud Computing," Proceedings for the 2016 IEEE International Conference on Computer Information and Telecommunication Systems, CITS 2016, pp. 30-35, Kunming, China, 2016.
18. A. Dua, N. Kumar, and **M. S. Obaidat**, " Secure Message Communication Among Vehicles Using Elliptic Curve Cryptography in Smart City," Proceedings for the 2016 IEEE International Conference on Computer Information and Telecommunication Systems, CITS 2016, pp. 52-57, Kunming, China, 2016.
19. Y. Guo, Y. Zhang, Z. Mi, Y. Yang, and **M. S. Obaidat**, " A Distributed Coverage Optimization and Connectivity Maintenance Strategy based on Unknown Sensors in WSN," Proceedings for the 2016 IEEE International Conference on Computer Information and Telecommunication Systems, CITS 2016, pp. 241-245, Kunming, China, 2016.
20. Y. Guo, Y. Zhang, Z. Mi, Y. Yang, and **M. S. Obaidat**, " A Min-Actor Algorithm for Connected Dominating Set Formation in WSN," Proceedings for the 2016 IEEE International Conference on Computer Information and Telecommunication Systems, CITS 2016, pp. 246-250, Kunming, China, 2016. **Best Paper Award**
21. D. Sharma, S. Dhurandher, **M. S. Obaidat**, S. Pruthi and B. Sadoun, " A Priority Based Message Forwarding Scheme for Opportunistic Networks," Proceedings for the 2016 IEEE International Conference on Computer Information and Telecommunication Systems, CITS 2016, pp. 236-240, Kunming, China, 2016.
22. P. V. Krishna, S. Misra, M. Pounambal V. Saritha and **M. S. Obaidat**, " Reservation and Contention Reduced Channel Access Method with effective Quality of Service for Wireless Mesh Networks," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Next-Generation Networking and Internet Symposium, Kuala Lumpur, Malaysia, 2016.
23. H. Chaari, K. Mnif, F. Zarai, **M. S. Obaidat**, and L. Kammoun, " User admission Maximization Based On Resource Allocation in Wireless Networks," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Mobile and Wireless Networking Symposium, Kuala Lumpur, Malaysia, 2016.
24. H. Huang, Z. Li, B. Ai, **M. S. Obaidat**, Z. Li, and Bo Ai, " Impact of Hardware Impairment on Spectrum Underlay Cognitive Multiple Relays Network," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Cognitive Radio and Networks Symposium, Kuala Lumpur, Malaysia, 2016.
25. Y. Guo, Y. Sun, Y. Li, T-Y. Wu, and **M. S. Obaidat**, " Accurate Indoor Localization with Crowd Sensing," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Ad-hoc and Sensor Networking Symposium, AHSN 2016,

- Kuala Lumpur, Malaysia, 2016.
26. A. Belghith, N. Turki, B. Cousin, and **M. S. Obaidat**, "Flexible Call Admission Control with Preemption in LTE Networks," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Mobile and Wireless Networking Symposium, Kuala Lumpur, Malaysia, 2016.
 27. B. Tushir, S. K. Dhurandher, I. Woungnag, M. S. Obaidat and V. Teotia, "Graph Coloring Technique for Efficient Channel Allocation in Cognitive Radio Networks," Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Ad-hoc and Sensor Networking Symposium, AHSN 2016, Kuala Lumpur, Malaysia, 2016.
 28. P. V. Krishna, S. Misra, S. Sivanesan, and **M. S. Obaidat**, "New Elastic Node Addressing Schemes for Next-Generation Networks," Proceedings of the IEEE 2015 IEEE International Conference on Data Science and Data Intensive Systems, pp. 705-710, Sydney, Australia, Dec 2015.
 29. S. Chen, Z. Li, M. S. Obaidat, B. Ai, and G. Wang, "Sequential Detection and Average Sample Number for Cognitive Radio with Multiple Primary Transmit Power Levels Proceedings of the 2016 IEEE International Conference on Communications, ICC 2016- Cognitive Radio and Networks Symposium, Kuala Lumpur, Malaysia, 2016.
 30. Selem Trabelsi, Aymen Belghith, Faouzi Zarai and M. S. Obaidat, "Performance Evaluation of a Decoupled-level with QoS-Aware Downlink Scheduling Algorithm for LTE networks," Proceedings of the IEEE 2015 IEEE International Conference on Data Science and Data Intensive Systems, pp. 696-704, Sydney, Australia, Dec 2015.
 31. M. Rezik, A. Meddeb-Makhlouf, F. Zarai, and M. S. Obaidat, "A MSCTP-based Authentication Protocol: MSCTPAP," Proceedings of the IEEE 2015 IEEE International Conference on Data Science and Data Intensive Systems, pp. 617, 623, Sydney, Australia, Dec 2015.
 32. K. Ben Ali, F. Zarai, M. S. Obaidat and L. Kamoun, "Enhanced MIH Architecture-aware Radio Resource Management Approach in NGWNS," Proceedings of the IEEE 2015 IEEE International Conference on Data Science and Data Intensive Systems, pp. 611, 616, Sydney, Australia, Dec 2015.
 33. V. Teotia, S. K. Dhurandher, I. Woungang, and M. S. Obaidat, "Markovian Model Based Channel Allocation in Cognitive Radio Networks," Proceedings of the IEEE 2015 IEEE International Conference on Data Science and Data Intensive Systems, pp. 478-482, " Sydney, Australia, Dec 2015.
 34. P. Venkata Krishna, S. Misra, S. Sivanesan, and **M. S. Obaidat**, "Learning Automata-based Cross Layer Framework with Context Awareness for Wireless Systems," Proceedings of IEEE GlobCom 2015- Symposium on Wireless Networks, San Diego, CA, Dec 2015.
 35. F. Zarai; **M. S. Obaidat**, S. Othmen and L. Kamoun "Secure and Optimal Routing Protocol for Multi-hop Cellular Networks" Proceedings of IEEE GlobCom 2015- Symposium on Wireless Networks, San Diego, CA, Dec 2015.
 36. S. Bera, T. Ojha, and S. Misra, and **M. S. Obaidat**, "Cloud-based Optimal Energy Forecasting for Enabling Green Smart Grid Communication," Proceedings of IEEE

- GlobCom 2015- Selected Areas in Communications Symposium-Green Communications and Computing Track, San Diego, CA, Dec 2015.
37. Z. Li, an Li, X. Chen, Y. Li, N. C. Beaulieu and **M. S. Obaidat**,” An Adaptive Algorithm for Joint Data Detection and Channel Estimation for Meteor Burst Communications Based on Per-Survivor Processing,” Proceedings of IEEE GlobCom 2015- Signal Processing for Communications Symposium, San Diego, CA, Dec 2015.
 38. H. Sun, H. Luo, T-Y Wu, and **M. S. Obaidat** “A PSNR-Controllable Data Hiding Algorithm Based on LSBs Substitution,” Proceedings of IEEE GlobCom 2015- Selected Areas in Communications Symposium-Green Communications and Computing Track, San Diego, CA, Dec 2015.
 39. Y. Guo, Y. Sun, T-Y Wu, and **M. S. Obaidat** ,” Context-aware Estimation Approach based on Participatory Sensing,” Proceedings of IEEE GlobCom 2015- Selected Areas in Communications Symposium-Green Communications and Computing Track, San Diego, CA, Dec 2015.
 40. S. K. Dhurandher, S. Borah, **M. S. Obaidat**, D. Sharma, and B. Baruah, “Probability based Controlled Flooding in Opportunistic Networks,” Proceedings of 2015 IEEE International Conference on Wireless Information Network Systems, WINSYS 2015, - Part of ICETE 2015, pp. 3-8, Colmar, France, July 2015.
 41. S. Ben Ameer, S. Smaoui, F. Zarai, **M. S. Obaidat**, and B. Sadoun,” An Efficient and Secure Mutual Authentication Mechanism in NEMO-based PMIPv6 Networks: A Methodology and Simulation Analysis,” Proceedings of the 2015 International Conference on Simulation Modeling, Methodologies and Applications, SIMULTECH 2015, pp.13-21, Colmar, France, July 2015.
 42. P. V. Krishna, S. Misra, S. Sivanesan and M. S. Obaidat, “Learning Automaton based Context Oriented Middleware Architecture for Precision Agriculture” Proceedings of 2015 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2015, pp. 139-143, Gijon, Spain, July 2015.- **Best Paper Award**
 43. M. Gassara, F. Zarai, I. Daly, M. S. Obaidat and K. F. Hsiao,”“A New Scheme for Proactive Out of Band Signaling Solution for IP Traceback in Wireless Mesh Network,” Proceedings of 2015 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2015, pp. 11-16,Gijon, Spain, July 2015.
 44. C. Meshram and M. S. Obaidat,” An ID-based Quadratic-Exponentiation Randomized Cryptographic Scheme,” Proceedings of 2015 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2015, pp. 154-158,Gijon, Spain, July 2015.
 45. P. Kar, S. Misra, and **M. S. Obaidat**,” Energy-Efficient Connectivity Re-establishment in WSN in the Presence of Dumb Nodes,” Proceedings of IEEE ICC 2015 - 4th IEEE International Workshop on Smart Communication Protocols and Algorithms (SCPA 2015) (ICC'15 - Workshops 26'), pp. 1485-1490, London, UK, 2015.
 46. M. Gaaara, Imen El bouabidi, F. Zarai, and **M. S. Obaidat**, All-in-One Binary Word Solution for IP Traceback in Wireless Mesh Network,” Proceedings of the 2015 IEEE International Conference on Communications, ICC 2015- Ad-hoc and Sensor Networking Symposium, AHSN 2015, pp. 6284-6288, London, UK, 2015.
 47. K. Ali, **M. S. Obaidat**, F. Zarai, and L. Kamoun,” Markov Model-based Adaptive CAC

- Scheme for 3GPP LTE FEMTOCELL Networks,” Proceedings of 2015 IEEE International Conference on Communications, ICC 2015- Communications Software, Services and Multimedia Applications Symposium, CSSMA 2015, pp. 6924-6928, London, UK, 2015.
48. I. Kakalou, G. I. Papadimitriou, P. Nicopolitidis, P. G. Sarigiannidis, and M. S. Obaidat, “A Reinforcement Learning-based Cognitive MAC Protocol,” Proceedings of 2015 IEEE International Conference on Communications, ICC 2015- Next Generation Networking Symposium, London, NGN 2015, pp. 5608-5613, London, UK, 2015.
 49. A. Roy, S. Misra, and **M. S. Obaidat**, “AID: A Prototype for Agricultural Intrusion Detection Using Wireless Sensor Network,” Proceedings of 2015 IEEE International Conference on Communications, ICC 2015- Communications Software, Services and Multimedia Applications Symposium, CSSMA 2015, pp. 8687-8693, London, UK, 2015.
 50. A. Samanta, S. Misra, and **M. S. Obaidat**, “Wireless Body Area Networks with Varying Traffic in Epidemic Medical Emergency Situation' Proceedings of 2015 IEEE International Conference on Communications, ICC 2015- Communications Software, Services and Multimedia Applications Symposium, CSSMA 2015, pp. 6929- 6934, London, UK, 2015.
 51. V. Teotia, S. Dhurandher, I. Woungang, and **M. S. Obaidat**, “Wormhole Prevention sing COTA Mechanism in Position-based Environment Over MANETs,” Proceedings of 2015 IEEE International Conference on Communications, ICC 2015- Communications Software, Services and Multimedia Applications Symposium, CSSMA 2015, pp. 7036-7040, London, UK, 2015.
 52. N. Omheni1, A. Gharsallah, F. Zarai1 and M. S. Obaidat, “ Call Admission Control and Adaptive Bandwidth Management Approach for HWNs,” Proceedings of IEEE GlobCom 2014- Ad Hoc and Sensor Networking Symposium ('GC14 AHSN'), pp. 112-117, Austin, TX, Dec 2014. (Best 50 Papers of GlobCom 2014).
 53. S. Bera, S. Misra and M. S. Obaidat, “ Energy Efficient Smart Metering for Green Smart Grid Communication,” Proceedings of IEEE GlobCom 2014- Symposium on Selected Areas in Communications: GC14 SAC Green Communication Systems and Networks, pp. 2768-2773, Austin, TX, Dec 2014.
 54. S. Moulik, S. Misra, C. Chakraborty and M. S. Obaidat, “ Prioritized Payload Tuning Mechanism for Wireless Body Area Network-Based Healthcare Systems,” Proceedings of IEEE GlobCom 2014- Symposium on Selected Areas in Communications: GC14 SAC e-Health, pp. 2434-2439, Austin, TX, Dec 2014.
 55. S. Misra, C. Chakraborty ad M. S. Obaidat, “ Analysis of Reliability and Throughput under Saturation Condition of IEEE 802.15.6 CSMA/CA for Wireless Body Area Networks,” Proceedings of IEEE GlobCom 2014- Symposium on Selected Areas in Communications: GC14 SAC e-Health, pp. 2507-2512, Austin, TX, Dec 2014.
 56. P. Sarigiannidis, A. Gkaliouris, V. Kakali, M. Louta, G. Papadimitriou, P. Nicopolitidis and M. S. Obaidat, “ On Forecasting the ONU Sleep Period in XG-PON Systems Using Exponential Smoothing Techniques,” Proceedings of IEEE GlobCom 2014- Symposium

- on Selected Areas in Communications: GC14 SAC Green Communication Systems and Networks, pp. 2653-2658, Austin, TX, Dec 2014.
57. I. Elbouabidi, S. Ben Ameer, S. Smaoui, F. Zarai, **M. S. Obaidat**, and L. Kamoun, "Secure Macro Mobility Protocol for New Generation Access Network," Proceedings of the 2014 IEEE International on Wireless Communications and Mobile Computing Conference, IWCMC 2014, pp. 518-523, Nicosia, Cyprus, 2014.
 58. S. Smaoui, S. Ben Ameer, I. Elbouabidi, F. Zarai, and **M. S. Obaidat**, "Secure Micro Mobility Protocol for New Generation Wireless Network," Proceedings of the 2014 IEEE International on Wireless Communications and Mobile Computing Conference, IWCMC 2014, pp. 895-900, Nicosia, Cyprus, 2014.
 59. S. Ben Ameer, F. Zarai, S. Smaoui, **M. S. Obaidat**, and K.F. Hsiao, "A Lightweight Mutual Authentication Mechanism for Improving Fast PMIPv6-based Network Mobility Scheme," Proceedings of the 2014 IEEE International Conference on Network Infrastructures and Digital Contents, IC-NIDC 2014, Beijing, China, Sep 2014.
 60. S. Othmen, A. Belghith, F. Zarai, **M. S. Obaidat** and L. Kamoun, "Power and Delay-aware Multi-path Routing Protocol for Ad Hoc Networks, Proceedings of the 2014 IEEE International Conference on Computer and Information Technology, CIT 2014, pp. 59-64, Xi'an, China, Sep 2014.
 61. M. Rekik, A. Meddeb-Makhlouf, F. Zarai, **M. S. Obaidat**, and K-F. Hsiao, "A SCTP-based Authentication Protocol: SCTPAP," Proceedings of the 2014 IEEE International Conference on Data Communication Networking, (DCNET 2014) - Part of the of the IEEE International Joint Conference on E-business and Telecommunications, ICETE 2014, pp. 3-8, Vienna, Austria, August 2014.
 62. I. El Bouabidi, S. Smaoui, F. Zarai, **M. S. Obaidat**, and L. Kamoun, "Improved Secure Neighbor Discovery Protocol (ISEND) for New Wireless Networks Generations," Proceedings of the 2014 International Conference on Wireless Information Networks and Systems, WINSYS 2014-Part of ICETE 2014, pp. 71-77, Vienna, Austria, August 2014.
 63. S. Othmen, A. Belghith, F. Zarai, **M. S. Obaidat**, and L. Kamoun, "Power and Delay-aware Multi-path Routing Protocol for Ad Hoc Network," Proceedings of 2014 IEEE International Conference on Information, Computer and Telecommunication Systems, CITS 2014, Jeju Island, Korea, July 2014.
 64. N. Omheni, F. Zarai, **M. S. Obaidat**, and K-F. Hsiao, "A Novel Vertical Handoff Decision Making Algorithm Across Wireless Heterogeneous Networks," Proceedings of 2014 IEEE International Conference on Information, Computer and Telecommunication Systems, CITS 2014, Jeju Island, Korea, July 2014.
 65. M. Houda, F. Zarai, **M. S. Obaidat**, and L. Kamoun, "Optimizing Handover Decision and Target Selection in LTE-A Network-based on MIH Protocol," Proceedings of 2014 IEEE International Conference on Communications (ICC 2014), - Ad Hoc and Sensor Networking Symposium (AHSN 2014), pp. 299-304, Sydney, Australia, June

2014.

66. N. Kumar, S. Misra and **M. S. Obaidat**, "Routing as a Bayesian Coalition Game in Smart Grid Neighborhood Area Networks: Learning Automata-Based Approach" Proceedings of 2014 IEEE International Conference on Communications (ICC 2014), - Cognitive Radio and Networks Symposium ('ICC'14 CRN'), pp. 1508-1513, Sydney, Australia, June 2014.
67. I. Koniaris, G. Papadimitriou, P. Nicopolitidis, **M. S. Obaidat**, "Honeypots Deployment for the Analysis and Visualization of Malware Activity and Malicious Connections" Proceedings of 2014 IEEE International Conference on Communications (ICC 2014)- Communications Software, Services and Multimedia Applications Symposium ('ICC'14 CSSMA'), pp. 1825-1830, Sydney, Australia, June 2014.
68. **M. S. Obaidat**, I. Woungan and S. K. Dhurandher, "A Cluster-Based Load Balancing Algorithm in Cloud Computing" Proceedings of 2014 IEEE International Conference on Communications (ICC 2014) - Mobile and Wireless Networking Symposium, ('ICC 2014 MWN'), pp. 2927-2931, Sydney, Australia, June 2014.
69. N. Omheni, F. Zarai, **M. S. Obaidat**, and L. Kamoun "Optimized MIH-Assisted P-NEMO Design for Vertical Handover over Heterogeneous Network Mobility," Proceedings of 2014 IEEE International Conference on Communications (ICC 2014), - Mobile and Wireless Networking Symposium ('ICC'14 MWN'), pp. 2885-2890, Sydney, Australia, June 2014.
70. Gupta, S. Dhurandher, I. Woungang, A. Kumar, and **M. S. Obaidat**, "Trust-based Security Protocol against blackhole attacks in opportunistic networks," Proceedings of IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2013). pp. 724-729, Lyon, France, Oct 2013.
71. A. Gangil, S. K. Dhurandher, **M. S. Obaidat**, V. Singh, and S. Bhatia, "MOCLO: A Cloud Framework for Mobile Devices," Proceedings of the IEEE International Conference on Internet of Things, (iThings 2013), pp. 632-637, Beijing, Aug 2013.
72. S. Misra, **M. S. Obaidat**, "Residential Energy Management in Smart Grid: A Markov Decision Process-Based Approach," Proceedings of the IEEE International Conference on Internet of Things, (iThings 2013), pp. 1152-1157, Beijing, Aug 2013.

73. M. Houda, F. Zarai, **M. S. Obaidat**, and L. Kamoun,” Dynamic Inter-Cells and Inter-Technologies Load Balancing in LTE-Advanced Network Based on MIH Protocol with Congestion Control Consideration,” Proceedings of the 2013 IEEE International Conference on Green Computing and Communications, GreenCom 2013, 2013.
74. S. Othmen, A. Belghith, **M. S. Obaidat**, and F. Zarai “Re-authentication Protocol from WLAN to LTE (ReP WLAN-LTE),” Proceedings of the IEEE Globcom 2013- Communications QoS, Reliability and Modeling Symposium, CQRM 2013, Dec 2013.
75. B. Das, S. Misra, U. Roy, and **M. S. Obaidat**, “Dynamic Relay Selection for MAC-level Retransmission in Vehicular Ad Hoc Networks, “ Proceedings of IEEE GlobCom 2013- Wireless Networking Symposium, Dec 2013.
76. S. Samoui, F. Zarai, **M. S. Obaidat**, K.F. Hsiao, and L. Kamoun,” HIP_IKEv2:A Proposal to Improve Internet Key Exchange Protocol-based on Host Identity Protocol,” Proceedings of the 2013 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2013), pp. 404-411, Reykjavik, Iceland, July 2013.
77. W. Mansouri, K. Mnif, F. Zarai, **M. S. Obaidat**, and L. Kamoun1,” Capacity Analysis of Heterogeneous Wireless Networks under SINR Interference Constraints” Proceedings of the 2013 International Conference on Wireless Information Networks and Systems, WINSYS 2013-Part of ICETE 2013, pp. 233-239, Reykjavik, Iceland, July 2013.
78. W. Mansouri, F. Zarai, **M. S. Obaidat** and L. Kamoun,” End-to-End Delay Distribution In Wireless Heterogeneous Networks,” Proceedings of the 2013 IEEE ICC 2013 - Communication Software and Services Symposium, CSS 2013, pp. 1562-1566, Budapest, Hungary, June 2013.
79. I. Woungang, **M. S. Obaidat**, S. Dhurandher, A. Ferworn, and W. Shah, ” An Ant-Swarm Inspired Energy-Efficient Ad Hoc On-Demand Routing Protocol for Mobile Ad Hoc Networks,” ” Proceedings of the 2013 IEEE ICC 2013 - Next-Generation Networking Symposium, pp. 2238-2242, Budapest, Hungary, June 2013.2013.
80. S. Misra, P. Krishna, H. Agarwal, A. Vasilakos V. Saritha and **M. S. Obaidat**,” A Fault-Tolerant Routing Protocol for Dynamic Autonomous Unmanned Vehicular Networks,” Proceedings of the 2013 IEEE ICC 2013 - Next-Generation Networking Symposium, pp. 2118-2122, Budapest, Hungary, June 2013.

81. N. Omheni, F. Zarai, **M. S. Obaidat**, K. F. Hsiao, and L. Kamoun,” Enhanced Handover Architecture in IEEE 802.21-enabled Heterogeneous Wireless Networks,” Proceedings of the 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Athens, Greece, May 2013.
82. I. El Bouabidil, F. Zarai, **M. S. Obaidat**, and Lotfi Kamoun” Secure and Integrated Handover Authentication Scheme with FMIPv6,” Proceedings of the 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Athens, Greece, May 2013.
83. G. H. S. Carvalho, I. Woungang, A. Anpalagan, **M. S. Obaidat**, S. and M. Rahman,” A Joint Call Admission Control-Based Approach for Initial RAT Selection in HetNets,” Proceedings of the 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Athens, Greece, May 2013.
84. I. Woungang, **M. S. Obaidat**, S. Dhurandher, and V. Koo” A Timed and Secured Monitoring Implementation Against Collaborative Wormhole Attacks in Mobile Ad Hoc Networks,” Proceedings of the 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Athens, Greece, May 2013.
85. P. Krishna, S. Misra, D. Joshi, and **M. S. Obaidat**,” Learning Automata Based Sentiment Analysis for Recommender System on Cloud,” Proceedings of the 2013 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2013, Athens, Greece, May 2013. Received Best Paper Award.
86. K. Ali, F. Zarai, **M. S. Obaidat** and L. Kamoun, “QoS Scheme based IEEE 802.21 MIH in Heterogeneous Wireless Networks,” Proceedings of the 2013 International Conference on Information Technology, ICIT 2013, Amman, Jordan, May 2013.
87. I. Traore, I. Woungang, M. S. Obaidat, Y. Nakkabi, and I. Lai,” Combining Mouse and Keystroke Dynamics Biometrics for Risk-Based Authentication in Web Environments,” Proceedings of the IEEE International Conference on Digital Home, ICDH 2012, pp.138-145, Guangzhou, China, 2012.
88. S. N. Das, S. Misra and **M. S. Obaidat**,” Event-Aware Topology Management in Wireless Sensor Networks,” Lecture Notes in Electrical Engineering- Ubiquitous Information Technologies and Applications, (Youn-Hee Han et al. Eds), pp. 679-687,

Dec 2012.

89. F. Zarai, I. El bouabidi, and **M. S. Obaidat**,” Fast and Secure Handover into Visited WLAN Networks,” Lecture Notes in Electrical Engineering- Ubiquitous Information Technologies and Applications, (Youn-Hee Han et al. Eds), pp. 649-657, Dec 2012.
90. G. Vasileiou, G. I. Papadimitriou, P. Nicopolitidis, P. G. Sarigiannidis, M. Louta, and **M. S. Obaidat**,” A Novel Medium Access Control Protocol for Radio-Over-Fiber Access Networks,” Proceedings of the IEEE GlobeCom 2012 - Next Generation Networking and Internet Symposium, NGNI 2012, pp. 2695-2700, Dec 2012.
91. S. Das, S. Misra, and **M. S. Obaidat**,” Event-Aware Topology Management in Wireless Sensor Networks,” Proceedings of the IEEE Globecom 2012 - Ad Hoc and Sensor Networking Symposium, AHSN 2012, Dec 2012.
92. S. Misra, R. Barthwal, and **M. S. Obaidat**,” Community Detection in an Integrated Internet of Things and Social Network Architecture,” Proceedings of the IEEE GlobCom 2012- Communications QoS, Reliability and Modeling Symposium, CQRM 2012, pp. 1665-1670, Dec 2012.
93. S. K. Dhurandher, **M. S. Obaidat**, D. Bhardwaj, and A. Garg,” GROOV: A Geographic Routing Over VANETs and Its Performance Evaluation,” Proceedings of the IEEE GlobCom 2012- Communications QoS, Reliability and Modeling Symposium, CQRM 2012, pp. 1668-1693, Dec 2012.
94. S. Dhurandher, **M. S. Obaidat**, A. Gupta, P. Gupta, and S. Goel,” Optimizing Energy Using Probabilistic Routing in Underwater Sensor Network,” Proceedings of the 2012 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2012), Rome, Italy, pp. 409-416, July 2012.
95. I. Smaoui, F. Zarai, **M. S. Obaidat**, and L. Kamoun, "Authentication Optimization for Vertical Handover in Heterogeneous Wireless Networks,” Proceedings of the 2012 International Conference on Wireless Information Networks and Systems, WINSYS 2012-Part of ICETE 2012, 2012, pp. 249-254, July 2012.
96. S. Misra, A. Gupta, P. Krishna, H. Agarwal, and **M. S. Obaidat**,” An adaptive Learning Approach for Fault-tolerant Routing in Internet of Things, IEEE Wireless Communications and Networks Conference, WCNC 2012, pp. 815-819, Paris, France, May 2012.

97. A.Panagiotakis, P.Melidis, P. Nicopolitidis, and **M. S. Obaidat**, ” Power-Controlled Reduction of Exposed Terminals in Ad-Hoc Wireless LANs,” Proceedings of the 2012 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2012, pp. 122-126, May 2012, Amman, Jordan.
98. **M. S. Obaidat**, I. Woungang, S. Dhurandher, and V. Koo, ” Preventing Packet Dropping and Message Tampering Attacks on AODV-based Mobile Ad Hoc Networks,” Proceedings of the 2012 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2012, pp. 137-141, May 2012, Amman, Jordan.
99. I. Woungang, S. Dhurandher, R. Peddi, and **M. S. Obaidat**, “Detecting Blackhole Attacks on DSR-based Mobile Ad Hoc Networks,” Proceedings of the 2012 IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2012, pp. 127-131, May 2012, Amman, Jordan.
100. I. Woungang, **M. S. Obaidat**, S. Dhurandher, H-C Chao and C. Liu,” ” Trust-Enhanced Message Security Protocol for Mobile Ad Hoc Networks,” Proceedings of the IEEE ICC 2012 - Communication and Information Systems Security Symposium ('ICC'12 CISS'), pp. 1003-1007, Ottawa, Canada, June 2012.
101. S. Dhurandher, **M. S. Obaidat**, A. Jaiswal, A. Tiwari and A. Tyagi, “Traffic Optimization through Information Dissemination,” Proceedings of the IEEE ICC 2012 - Communication Software Services and Multimedia Applications Symposium ('ICC'12 CSSMA), pp. 1951-1955, Ottawa, Canada, June 2012.
102. M. Louta, P. Sarigiannidis, P. Nicopolitidis, G. Papdimtrio and **M. S. Obaidat**,” Design of an Effective QoS-aware Mapping Scheme Using Persistent Allocation Probing” Proceedings of the IEEE ICC 2012 Wireless Networking Symposium, WN 2012, pp. 6431-6435, Ottawa, Canada, June 2012.
103. S. Dhurandher, **M. S. Obaidat**, and M. Gupta,” AQUA-GLOMO: A Simulator with Acoustic Model for Underwater Networks,” Proceedings of the FTRA World Convergence Conference, WCC 2011, Jeju, Korea, Dec 2011.
104. S. Misra, P. Krishna, H. Agarwal, A. Saxena, and **M. S. Obaidat**,” A Learning Automata Based Solution for Preventing Distributed Denial of Service in Internet of Things,” Proceedings of the IEEE Internet of Things (iThings) Conference, pp. 114-

122, October 2011.

105. A. Bhandari, A. Agarwal, A. Verma, **M. S. Obaidat**, I. Woungang, and S. Dhurandherand,” Time Stamp-based Algorithm for Task Scheduling in a Distributed Computing System with Multiple Master Multiple Slave Architecture,” Proceedings of the IEEE Internet of Things (iThings) Conference, pp. 67-73, October 2011.
106. **M. S. Obaidat**, A. Bhandari, A. Maheshwari, H. Bedi, M. Bosco, I. Woungang, and S. Dhurandher,” Design and Implementation of a Fault Tolerant Multiple Master Cloud Computing System,” Proceedings of the IEEE Internet of Things (iThings) Conference, pp. 82-88, October 2011.
107. I. Woungang, S. Dhurandher, **M. S. Obaidat** and H-C Chao,” Trust-Enhanced Message Security Protocol for Mobile Ad Hoc Networks,” Proceedings of the IEEE Internet of Things (IoT) Conference, 2011.
108. J-W Huang, I. Woungang, H-C Chao, **M. S. Obaidat**, T-Y Chi, and S. Dhurandher, “Multi-Path Trust-Based Secure AOMDV Routing in Ad Hoc Networks ,” Proceedings of the IEEE GLOBECOM 2011 - Communication Software, Services, and Multimedia Applications Symposium, 2011.
109. C. Liu, C-Y Wu, S-W Hsu, H-C Chao, I. Woungang, and **M. S. Obaidat**,” Service Chord: A Scalable Service Capability Interaction Framework for IMS ,” Proceedings of the IEEE GLOBECOM 2011 - Communication Software, Services, and Multimedia Applications Symposium, 2011.
110. C. Liu, I. Woungang, H-C Chao, S. Dhurandher, T-Y Chi and **M. S. Obaidat**,” Message Security in Multi-Path Ad Hoc Networks Using a Neural Network-Based Cipher,” Proceedings of the IEEE GLOBECOM 2011 - Ad-hoc and Sensor Networking Symposium, 2011.
111. S. Dhurandher, **M. S. Obaidat**, S. Goel and A. Gupta,” Optimizing Energy through Parabola Based Routing in Underwater Sensor Networks,” Proceedings of the IEEE GLOBECOM 2011 - Communications QoS, Reliability, and Modeling Symposium, 2011.
112. M. Obaidat, M. Ali, I. Shahwan and **M. S. Obaidat**,” A Novel Multipath Routing Protocol for MANETs,” Proceedings of the 2011 IEEE International Conference on Wireless Communications, Networks and Mobile Computing, WICOM 2011, pp. 1-6, Wuhan, China, September 2011.

113. V. G. Gasull, D. F. Larios, J. Barbancho, C. León and **M. S. Obaidat**,” Computational Intelligence Applied to Wildfire Prediction Using Wireless Sensor Networks,” Proceedings of the 2011 IEEE International Conference on Data Communication Networking, (DCNET 2011) - Part of the of the IEEE International Joint Conference on E-business and Telecommunications, ICETE 2011, Seville, Spain, July 2011.
114. M. Obaidat, M. Ali and **M. S. Obaidat**,” QoS-Aware Multipath Routing Protocol for Delay Sensitive Applications in MANETs: A Cross-Layer Approach,” Proceedings of the 2011 IEEE International Conference on Wireless Information Networks and Systems (WINSYS 2011) - Part of the of the IEEE International Joint Conference on E-business and Telecommunications, ICETE 2011, Seville, Spain, July 2011.
115. P. Roy, S. Bhattacharjee, S. Ghosh, S. Misra and **M. S. Obaidat**,” Fire Monitoring in Coal Mines Using Wireless Sensor Networks,” Proceedings of the IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2011, pp. 16-21, The Hague, Netherlands, June 2011.
116. S. Dhurandher, **M. S. Obaidat**, and M. Gupta, “Application of Ant Colony Optimization to Develop Energy Efficient Protocol in Mobile Ad-Hoc Networks,” Proceedings of the 2011 IEEE International Conference on Wireless Information Networks and Systems (WINSYS 2011) - Part of the of the IEEE International Joint Conference on E-business and Telecommunications, ICETE 2011, Seville, Spain, July 2011.
117. S. Dhurandher, **M. S. Obaidat**, A. Mahendra and L. Agnani,” Puzzle Solving-based Authentication Method for Enhanced Security in SPIN and Its Performance Evaluation,” Proceedings of the 2011 Communication Networking Simulation Symposium (CNS 2011)- SpringSim 2011, pp. 5-10, Boston, MA, April 2011.
118. A. Chalak, S. Misra, ad **M. S. Obaidat**,” A Cluster –Head Selection Algorithm for Wireless Sensor Networks,” Proceedings of the 2010 IEEE International Conference on Electronics, Circuits and Systems, ICECS 2010, pp. 130-133, Athens, Greece, Dec 2010.
119. S. Dhurandher, **M. S. Obaidat**, and K. Diwakar,” A Mechanism for Reducing Congestion while Routing Bulky Data in Mobile Ad Hoc Networks,” Proceedings of the 2010 IEEE International Conference on Electronics, Circuits and Systems, ICECS

2010, pp. 142-145, Athens, Greece, Dec 2010.

120. S. Dhurandher, **M. S. Obaidat** and M. Gupta, "A Reactive Optimized Link State Routing Protocol for Mobile Ad hoc Networks, Proceedings of the 2010 IEEE International Conference on Electronics, Circuits and Systems, ICECS 2010, pp. 372-375, Athens, Greece, Dec 2010.
121. S. Misra and Sudip Misra, Ashim Ghosh, A.P. Sagar, and **M. S. Obaidat**," Detection of Identity-Based Attacks in Wireless Sensor Networks Using Signalprints," Proceedings of the IEEE/ACM International Conference on Green Computing and Communications, Green Com 2010, pp. 35-41, Hangzhou, China, December 2010.
122. S. Dhurandher, **M. S. Obaidat**, G. Jain, I. Mani Ganesh, and V. ShashidharAn Efficient and Secure Routing Protocol for Wireless Sensor Networks using Multicasting," Proceedings of the IEEE/ACM International Conference on Green Computing and Communications, Green Com 2010, pp. 374-379, Hangzhou, China, December 2010.
123. S. Dhurandher, **M. S. Obaidat**, D. Gupta, N. Gupta, and A. Asthana," Network Layer based Secure Routing Protocol for Wireless Ad Hoc Sensor Networks in Urban Environments," Proceedings of the IEEE ICETE 2010-International Conference on Wireless Information Networks and Systems, WINSYS 2010, pp. 23-30. Athens, Greece, 2010.
124. S. K. Dhurandher, **M. S. Obaidat**, A. Jaiswal, A. Tiwari and A. Tyagi," Securing Vehicular Networks: A Reputation and Plausibility Checks-based Approach ," Proceedings of the 2010 IEEE GlobCom 2010 Workshop on Web and Pervasive Security (WPS), pp. 1595-1599, Miami, FL, Dec 2010.
125. S. K. Dhurandher, **M. S. Obaidat**, D. Gupta, N. Gupta, and A. Asthana," Energy Efficient Routing for Wireless Sensor Networks in Urban Environments ," Proceedings of the 2010 IEEE GlobCom 2010 Workshop on Web and Pervasive Security (WPS), pp. 1568-1572, Miami, FL, Dec 2010.
126. M. Panagiotis G. Sarigiannidis, G. I. Papadimitriou, P. Nicopolitidis, **M. S. Obaidat**, And A. S. Pombortsis," A Novel Adaptive Mapping Scheme for IEEE 802.16 Mobile Downlink Framing," IEEE Wireless Networks Symposium-GlobCom 2010, Miami, FL, Dec 2010.

127. S. Misra, A. Ghosh, A. Sagar, and **M. S. Obaidat**, "Detection of Identity-Based Attacks in Wireless Sensor Networks Using Signalprints," 2010 IEEE GlobCom 2010 Workshop on Web and Pervasive Security (WPS), Miami, FL, Dec 2010.
128. S. Dhurandher, **M. S. Obaidat**, P. Dhurandher, K. Verma and P. Gupta," Friend-based Secure Routing through Challenges in Mobile Ad Hoc Networks," Proceedings of the IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2010, pp. 280-286, Ottawa, Canada, 2010.
129. I. Traore, I. Woungang, A. Ahmed and **M. S. Obaidat**," Performance Analysis of Distributed Software Systems: A Model-Driven Approach," Proceedings of the IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2010, pp. 111-118, Ottawa, Canada, 2010.
130. I. Traore, I. Woungang, A. Ahmed and **M. S. Obaidat**," Performance Analysis of Distributed Software Systems: A UML-Based Approach," Proceedings of the IEEE/SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2010, pp. 119-126, Ottawa, Canada, 2010.
131. S. K. Dhurandher, **M. S. Obaidat**, P. Jindal, R. Chavli and S. Valecha," Predictive Multi-Hop Stable Routing in Vehicular Ad Hoc Network," Proceedings of ACS/IEEE International Conference on Computers and Applications, AICCSA 2010, Hamammet, Tunisia, May 2010.
132. S. K. Dhurandher, **M. S. Obaidat**, and M. Gupta," A Novel Geocast Technique with Hole Detection in Underwater Sensor Networks, " Proceedings of ACS/IEEE International Conference on Computers and Applications, AICCSA 2010, Hamammet, Tunisia, May 2010.
133. S. Misra, R. Rout, T. Krishna, P. Manilal, and **M. S. Obaidat**," Markov Decision Process-Based Analysis of Rechargeable Nodes in Wireless Sensor Networks," Proceedings of the Communication Networking Symposium, CNS 2010, pp. 77-83, Orlando, FL, April 2010.
134. S. Dhurandher, R. Garg, D. Varma and **M. S. Obaidat**," Authentication Based Communication in Wireless Home Area Mesh Network," 2010 Workshop on Grand Challenges on Modeling, Simulation and Analysis for Home Homeland Security, MSAHS 2010, Washington, DC, March 2010.

135. G. Papadimitriou and **M. S. Obaidat**," A New Approach to the Design of Mac Protocols for WDM-EPONs", Proceedings of the 2010 IEEE Mediterranean Electrotechnical Conference, Valletta, Malta, April 2010.
136. M. Denko, T. Nkwe, and **M. S. Obaidat**," Efficient Cooperative Caching with Improved Performance in Wireless Mesh Networks," Proceedings of the IEEE ICC 2010 - Communication QoS, Reliability and Modeling Symposium, CRM 2009, 2010.
137. **M. S. Obaidat**, M. Denko and L. Ma," Fairness and Throughput Optimization in Wireless Mesh Networks," Proceedings of the 2009 IEEE International Conference on Electronics, Circuits and Systems, ICECS 2009, pp. 824-827, December 2009.
138. M. Denko, I. Woungang and **M. S. Obaidat**," Trust Management in Opportunistic Pervasive Healthcare Systems," Proceedings of the 2009 IEEE International Conference on Electronics, Circuits and Systems, ICECS 2009, pp. 832-835, December 2009.
139. S. Misra and **M. S. Obaidat**, "Markov Decision Process-Based Analysis of Rechargeable Nodes in Wireless Sensor Networks, submitted to the 2009 IEEE International Conference on Electronics, Circuits and Systems, ICECS 2009, Dec 2009.
140. W. Abdallah, M. Hamdi, N. Boudriga and **M. S. Obaidat**," Efficient Resource Reservation for Optical Burst Switching Networks," Proceedings of the IEEE GLOBECOM 2009 Communications Software and Services Symposium, Nov/Dec 2009.
141. M. Denko, J.Tian, T. Nkwe and **M. S. Obaidat**, "Cross-Layer Based Data in Mobile Ad Hoc Networks, " Proceedings of the IEEE GLOBECOM 2009 Communications Software and Services Symposium, Nov/Dec 2009. Best Paper Award from IEEE GLOBECOM 2009.
142. S. Misra, **M. S. Obaidat**, S. Kumar, K. Diwakar, M. Gupta and P. Gupta," An Angular Routing-Based Scheme for Optimizing Power Utilization in Vehicular Ad Hoc Networks," Proceedings of the IEEE GLOBECOM 2009 Communications QoS, Reliability and Performance Modeling (CQRPM), Nov/Dec 2009.
143. S. Sarkar, B. Kisku, S. Misra and **M. S. Obaidat**," 'Chinese Remainder Theorem-Based RSA-Threshold Cryptography in Mobile Ad Hoc Networks Using Verifiable Secret Sharing," Proceedings of IEEE International Conference on Wireless and

Mobile Computing, Networking and Communications (WiMob 2009), October 2009.

144. S. Misra, **M. S. Obaidat**, S. Sanchita, and D. Mohanta,” An Energy-Efficient, and Secured Routing Protocol for Wireless Sensor Networks,” Proceedings of the 2009 SCS/IEEE International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2009, pp. 185-192, Istanbul, Turkey, July 2009.
145. S. Misra, M. S. Obaidat, A. Bagchi, R. Bhat and S. Ghosh,” Attack Graph Generation with Infused Fuzzy Clustering,” Proceedings of IEEE International Conference on Security and Cryptography, SECRYPT 2009, pp. 92-98, Milan, Italy, 2009.
146. Y. Wang and **M. S. Obaidat**,” An Experimental Analysis Study of Bandwidth Allocation with QoS in Wireless Networks,” Proceedings of the 2009 Communications and Networking Simulation Symposium (CNS 2009), San Diego, California, March 2009.
147. S. K. Dhurandher, S. Misra, **M. S. Obaidat**, P. Lochab, V. Sharma and S. Gautam,” An Efficient Power Aware Broadcast Technique for Wireless Ad Hoc Networks,” Proceedings of the 2009 Communications and Networking Simulation Symposium (CNS 2009), San Diego, California, March 2009.
148. P. V. Krishna, S. Misra, **M. S. Obaidat**, and V. Saritha,” A New Scheme for Distributed Channel Allocation in Cellular Wireless Networks,” Proceedings of the 2009 Communications and Networking Simulation Symposium (CNS 2009), San Diego, California, March 2009.
149. C.K. Liaskos, S.G. Petridou, G.I. Papadimitriou P. Nicopolitidis, **M. S. Obaidat**, and Pomportsis, “ A Novel Clustering-Driven Approach to Wireless Data Broadcasting,” Proceedings of the 2008 Annual Symposium of the IEEE/CVT, Nov.13, 2008, Antwerp, Belgium.
150. S. Misra, K. I. Abraham, **M. S. Obaidat** and P. V. Krishna, “Intrusion Detection in Wireless Sensor Networks: The S-Model Learning Automata Approach”, Proceedings of the 4th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications: The First International Workshop in Wireless and Mobile Computing, Networking and Communications (IEEE SecPriWiMob’08), pp. 603-607, Avignon, France, October 12-14, 2008.

151. S. K. Dhurandher, S. Misra, **M. S. Obaidat** and N. Gupta, "QDV: A Quality-Based Distance Vector Routing for Wireless Sensor Networks Using Ant Colony Optimization", Proceedings of the 4th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications: The First International Workshop in Wireless and Mobile Computing, Networking and Communications (IEEE SecPriWiMob'08), pp. 598-602, Avignon, France, October 12-14, 2008.
152. G. Papadimitriou, **M. S. Obaidat**, "A Novel Clustering-Driven Approach to Wireless Data Broadcasting" accepted in the 15th IEEE Communication and Vehicular Technology (CVT) Symposium, Nov 2008.
153. S. Dhurandher, S. Misra, **M. S. Obaidat**, I. Singh, R. Agarwal and B. Bhambhani, "PeerNS: A New Simulator For Peer-to-Peer Networks," Proceedings of the IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 336-341, Rabat, Morocco, May 2009.
154. S. Misra, B. J. Oommen, S. Yanamandra, and **M. S. Obaidat** "Random Early Detection for Congestion Avoidance: A Discretized Pursuit Automaton Approach," Proceedings of the IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 485-491, Rabat, Morocco, May 2009.
155. S. Misra, V. Tiwari, and **M. S. Obaidat**, "Adaptive Learning Solution for Congestion Avoidance in Wireless Sensor Networks," Proceedings of the IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 478-484, Rabat, Morocco, May 2009. Best Paper Award.
156. P. Sarigiannidis, S. G. Petridou, G. I. Papadimitriou, **M. S. Obaidat**, and A. S. Pomportsis, "A Quality of Service Scheduling Technique for WDM Star Networks with Tunable Transmitters and Fixed Receivers," Proceedings of the IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 472-477, Rabat, Morocco, May 2009.
157. T. Guelzim and **M. S. Obaidat**, "A New Counter Disassociation Mechanism(CDM) for 802.11b/g Wireless Local Area Networks," Proceedings of IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 251-259, Rabat, Morocco, May 2009.
158. P. Krishna, S. Misra, **M. S. Obaidat** and V. Saritha, "An Efficient 802.11 Medium Access Control Method and its Simulation Analysis," Proceedings of

IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2009, pp. 330-335, Rabat, Morocco, May 2009.

159. S. Misra, S. Dhurandher, **M. S. Obaidat**, K. Verma, P. Gupta,” A Low Overhead Fault-Tolerant Routing Algorithm for Mobile Ad-Hoc Networks Based on Ant Swarm Intelligence,” Proceedings of IEEE International Conference on Communications, ICC 2009, Dresden, Germany, June 2009.
160. **M. S. Obaidat** and S. Misra,” An Energy-Aware Routing Protocol for Ad-Hoc Networks Based on the Foraging Behavior in Ant Swarms,” Proceedings of IEEE International Conference on Communications, ICC 2009, Dresden, Germany, June 2009.
161. S. Misra and **M. S. Obaidat**,” On Increasing Information Availability in Gnutella-Like Peer-to-Peer Networks,” Proceedings of IEEE International Conference on Communications, ICC 2009, Dresden, Germany, June 2009.
162. A. Marco, R. Casas, J. L. Sevillano, V. Coarasa, J. L. Falcó, and **M. S. Obaidat**,” Wireless Multi-Hop Synchronization at the Application Layer,” Proceedings of IEEE GLOBECOM 2008- 2008 Symposium on Selected Areas in Communications, New Orleans, Louisiana, 2008.
163. A. Linares-Barranco, J.L. Sevillano, **M. S. Obaidat**, N. Ferrandob, J. Cerdá, D. Cascado, G. Jimenez and A. Civit,” AER Filtering Using GLIDER: VHDL Cellular Automata Description,” Proceedings of IEEE International Conference on Electronics, Circuits and Systems, ICECS 2008, pp. 614-617, Malta, September 2008.
164. S. Dhurandher, S. Misra, and **M. S. Obaidat**,” An Energy-Efficient On-Demand Routing Algorithm for Mobile Ad-Hoc Networks,” Proceedings of IEEE International Conference on Electronics, Circuits and Systems, ICECS 2008, pp.958-961, Malta, September 2008.
165. M. Sundarajan and **M. S. Obaidat**,” New Techniques to Enhance the Capabilities of the SOCKS Networks Security Protocol,” Proceedings of the 2008 IEEE International Conference on Security and Cryptography, SECRIPT 2008-Part of ICETE 2008, pp. 197-201, Porto, Portugal, July 2008.
166. Tarik Guelzim and **M. S. Obaidat**,” Novel Neurocomputing-based Scheme to Authenticate WLAN Users Employing Distance Proximity Threshold,” Proceedings of the 2008 IEEE International Conference on Security and Cryptography, SECRIPT

2008-Part of ICETE 2008, pp. 145-153, Porto, Portugal, July 2008.

167. A. Lazzez, N. Boudriga and **M. S. Obaidat**,” Improving TCP QoS over OBS Networks: A Scheme Based on Optical Segment Retransmission,” Proceedings of the 2008 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2008, pp. 233-240, Edinburgh, UK, June 2008.
168. Y. Khlifi, N. Boudriga, and **M. S. Obaidat**,” A Real-time TCP Management Scheme over OLS Networks,” Proceedings of the 2008 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2008, pp. 241-248, Edinburgh, UK, June 2008.
169. Sanjay K. Dhurandher, Sudip Misra, Namit Nangia and **M. S. Obaidat**,” An Efficient Approach for Location Updating in Mobile Ad-Hoc Networks, “Proceedings of the 2008 Annual Simulation Symposium, ANSS 2008, pp. 61-67, Ottawa, Canada, April 2008.
170. F. Zari, N. Boudriga, and **M. S. Obaidat**,” Location Management in Wireless Fourth Generation Networks,” Proceedings of IEEE GLOBECOM 2007, Washington, DC, Dec. 2007.
171. A. Meddeb Makhlof, N. Boudriga, and **M. S. Obaidat**,” Radio-based Cooperation for Wireless Intrusion Detection,” Proceedings of IEEE GLOBECOM 2007, Washington, DC, Dec. 2007.
172. Y. Khalifi, N. Boudriga and **M. S. Obaidat**,” A Real-Time Admission Control and Planning of OLS Networks,” Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, pp. 601-604, Marrakech, Morocco, Dec. 2007.
173. M. Suhail and **M. S. Obaidat**,” Robust Watermarking System Using Security Enhancement on Content Based Image Segmentation,” Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, pp. 1252-1255, Marrakech, Morocco, Dec. 2007.
174. A. Meddeb Makhlof, N. Boudriga and **M. S. Obaidat**,” Radio-based Cooperation Scheme for DDoS Detection,” Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, pp. 1051-1054, Marrakech, Morocco, Dec. 2007.
175. M. Abdelkader, N. Boudriga, and **M. S. Obaidat**,” Secure Grid-based Multi-Party

- Micropayment System in 4G Networks,” Proceedings of the IEEE International Conference on E-Business, pp. 137-148, Barcelona, Spain, July 2007.
176. F. Zarai, N. Boudriga, and **M. S. Obaidat**,” Intelligent Network Functionalities in Wireless 4G Networks,” Proceedings of the 2007 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2007, pp. 429-434, San Diego, Ca, July 2007.
 177. M. Cherif, S. El Fatmi, N. Boudriga, and **M. S. Obaidat**,” Burst Variability Management and Modeling in OBS Networks,” Proceedings of the 2007 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2007, pp. 257-265, San Diego, Ca, July 2007.
 178. R. Chandrasekar, Sudip Misra, and **M. S. Obaidat**, “On Evaluating Some Agent-Based Intrusion Detection Schemes in Mobile Ad-Hoc Networks,” Proceedings of the 2007 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2007, pp. 594-601, San Diego, Ca, July 2007.
 179. Y. Khilifi, N. Boudriga, **M. S. Obaidat** and S. El-Fatmi,” Admission Control in Optical Label Switched Networks: A Dynamic QoS-based Approach,” Proceedings of the 2007 Annual Simulation Symposium, ANSS 2007, pp. 106-113, Norfolk, Va, 2007.
 180. A. Lazzez, S. El Fatmi, and **M. S. Obaidat**, “A Dynamic QoS-based Scheme for Admission Control in OBS Networks,” Proceedings of IEEE International Conference on Communications, ICC 2007.
 181. Y. Khalifi, N. Boudriga, and **M. S. Obaidat**, “A QoS-based Scheme for Planning and Dimensioning of Optical Label Switched Networks,” Proceedings of the IEEE International Conference on Communications, ICC 2007.
 182. A. Lazzez, and **M. S. Obaidat**, “OBS Network Resource Dimensioning: A QoS-based Approach,” Proceedings of the IEEE International Conference on Communications, ICC 2007.
 183. M. A. Suhail, and **M. S. Obaidat**, “ Security Enhancement for Watermarking Technique Using Content based Image Segmentation,” Proceedings of the IEEE International Conference on Computer Systems and Applications, AICCSA 2007, pp. 772-780, Amman, Jordan, May 2007.

184. A. Lazzez, and **M. S. Obaidat**,” A QoS-oriented Protocol for Burst Admission Control in OBS Networks,” Proceedings of the IEEE International Conference on Computer Systems and Applications, AICCSA 2007, pp. 172-179, Amman, Jordan, May 2007.
185. Y. Khlifi, N. Boudriga, and **M. S. Obaidat**, “ Congestion Avoidance Mechanism for Optical Label Switched Networks: A Dynamic QoS-based Approach,” Proceedings of the IEEE International Conference on Computer Systems and Applications, AICCSA 2007, pp. 233-240, Amman, Jordan, May 2007.
186. A. Lazzez, N. Boudriga, and **M. S. Obaidat**,” A Novel Scheme for Traffic Monitoring in Optical Bursts Switched Networks,” Proceedings of the IEEE International Conference on Computer Systems and Applications, AICCSA 2007, pp. 266-273, Amman, Jordan, May 2007.
187. M. Suhail and **M. S. Obaidat**,” Security Enhancement of Multimedia Copyright Protection,” Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, SMC 2006, pp. 1531-1535, October 2006.
188. F. Zarai, N. Boudriga, and **M. S. Obaidat**, “ Secured and Seamless Handoff in Wireless Fourth Generation Systems,” Proceedings of the 2006 IEEE Intl. Conference on Electronics, Circuits and Systems, ICECS 2006, pp. 970-973, Nice, France, December 2006.
189. P. Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis,” Performance Acceleration of Adaptive Wireless Data Broadcasting System for High Data Rate Environments, “ Proceedings of IEEE GLOBECOM 2006 Conference, San Francisco, Ca, November 2006. (1-4244-0357-X/06/\$20.00).
190. M. Hamdi, N. Boudriga, and **M. S. Obaidat**, “ Designing a Wireless Sensor Network for Mobile Target Localization and Tracking,” Proceedings of IEEE GLOBECOM 2006 Conference, San Francisco, Ca, November 2006. (1-4244-0357-X/06/\$20.00).
191. M. Abdelkader, N. Boudriga, and **M. S. Obaidat**,” SAGA: An Adaptive Infrastructure for Secure Available Grid Ad Hoc Networks,” Proceedings of the 2006 IEEE International Conference on E-Business, pp. 22-30, Setubal, Portugal, August 2006.
192. Khilifi, N. Boudriga and **M. S. Obaidat**,” Performance Analysis of a Dynamic QoS in

- Optical in Optical Label Switched Networks,” Proceedings of the 2006 International Symposium on Performance Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2006, pp. 399-406, Calgary, Canada, July/August 2006.
193. A. Lazzez, N. Boudriga and **M. S. Obaidat**,” Absolute Transmission Delay Guaranteed in Optical Burst Switched Networks,” Proceedings of the 2006 International Symposium on Performance Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2006, pp. 399-406, Calgary, Canada, July/August 2006.
 194. N. Boudriga, **M.S. Obaidat**, M. Cherif, and S. Guemara-ElFatmi,” A New Dynamic Resource Reservation Algorithm for OBS Networks: Design and Performance,” Proceedings of IEEE International Conference on Electronics, Circuits and Systems, ICECS 2005, pp. 178-181, Tunis, Dec. 2005.
 195. M. Suhail and **M. S. Obaidat**,” A Watermarking Technique for Geometric Manipulation Attacks,” Proceedings of IEEE International Conference on Electronics, Circuits and Systems, ICECS 2005, pp. 69-73, Tunis, Dec. 2005.
 196. M. Suhail and **M. S. Obaidat**,” Watermarking Technique using Content based Image Segmentation,” Proceedings of the 2005 Summer Computer Simulation Conference, SCSC 2005, pp. 301-310, Philadelphia/ Cherry Hill, July 2005.
 197. F. Zari, N. Boudriga and **M. S. Obaidat**,” A Novel Scheme for Integrating WLANs and WPANs using UMTS-TDD,” Proceedings of the 2005 International Symposium on Performance Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2005, pp. 205-213, Philadelphia/Cherry Hill, July 2005.
 198. P. Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis, “On Regional Performance Improvement of an Adaptive Wireless Push System in Environments with Locality of Demand,” IEEE Globcom2005 Conference, 2005.
 199. N. Boudriga and **M. S. Obaidat**,” Mobility and Security Issues in Wireless Ad-hoc Sensor Networks,” IEEE Globcom2005 Conference, 2005.
 200. A. Lazzez, Y. Khelifi, S. Guemara, N. Boudriga and **M.S. Obaidat**,” A Scheme for

Prioritized Optical Buffering for QoS Support in Optical Switched Networks and Its Performance,” Proceedings of the 2005 Applied Telecommunication Symposium, ATS 2005, San Diego, CA, April 2005.

201. N. Boudriga and **M. S. Obaidat**,” Fault and Intrusion Tolerance in Wireless Ad hoc Networks, Proceedings of the IEEE Wireless Communication and Networking Conference, WCNC2005, New Orleans, LA, USA, April 2005.

202. M. Tounisi, F. Zarai, N. Boudriga and **M. S. Obaidat**,” A Novel Scheme for Certificate, CRL, and Authentication Management in Hierarchical Ad Hoc Networks,” Proceedings of the 2005 International Workshop in Wireless Security Technologies, IWWST2005, pp. 1-8, London, April 2005.
203. M. Suhail, and **M. S. Obaidat**,” On the Security Enhancement of Multimedia Copyright Protection for E-Business,” Proceedings of the 2004 Workshop on Electronic Government and Commerce: Design, Modeling, Analysis and Security, CDMA2004, pp. 104-115, Setubal, Portugal, August 2004.
204. G. I. Papadimitriou, **M. S. Obaidat**, C. Papazoglou, and A. S. Pomportis,” Deign Alternative for Virtual Private Networks,” Proceedings of the 2004 Workshop on Electronic Government and Commerce: Design, Modeling, Analysis and Security, CDMA2004, pp. 35-45, Setubal, Portugal, August 2004.
205. M. Suhail, and **M.S Obaidat**, “Multimedia Copyright Security Enhancement Resources Reservation for Handoffs in UTRA TDD Systems,” Proceedings of the 2004 Summer Computer Simulation Conference, SCSC2004, pp. 355-361, San Jose, California, July 2004.
206. Faouzi Zarai, Nouredine Boudriga and **M.S Obaidat**, “Resources Reservation for Handoffs in UTRA TDD Systems,” Proceedings of the International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2004, pp. 274-281, San Jose, California, July 2004.
207. F. Tenzakhti, K. Day, M. Ould-Khaoua, and **M. S. Obaidat**, “On the Availability of Replicated Contents in the Web with Server Capacity Constraints,” Proceedings of the International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2004, pp. 813-820, San Jose, California, July 2004.
208. A. Pomportsis, G. Papadimitriou, **M. S. Obaidat**,” Using Adaptive TDMA Protocols in WDM Passive Star Networks with Fixed Transmitters and Tunable Receivers,” Proceedings of the 2004 IEEE International Symposium on Signals, Systems, and Electronics, ISSSE'04, 2004.
209. Y. Wang, and **M. S. Obaidat**,” A Performance Evaluation Study of Jitter Characteristics in Wireless Networks,” Proceedings of the International Symposium on Performance Evaluation of Computer and Telecommunication Systems,

SPECTS2004, pp. 231-237, San Jose, California, July 2004.

210. P.Nicopolitidis, G. I. Papadimitriou, **M. S. Obaidat**, A.S.Pomportsis, "On Carrier-Sense Integration in Learning Automata-based MAC Protocols for Ad Hoc Wireless LANs," Proceedings of the 2004 IEEE International Performance, Computing and Communications Conference, IPCCC2004,/ 2004 Workshop on Multihop Wireless Networks(MWN'04), pp. 565-569, Phoenix, AZ, April 2004.
211. F. Tenzakhti, K. Day, M. Ould-Khaoua, and **M. S. Obaidat**, Placement of Web Proxies with Server Capacity Constraints," Proceedings of the 2004 High Performance Computing Symposium, HPC2004, pp. 101-106, Washington, DC, April 2004.
212. Y. Wang, and **M. S. Obaidat**," An Experimental Analysis Study of Loss Rate in Wireless Mobile IP Systems," Proceedings of the 2004 Applied Telecommunication Symposium, ATS2004, pp. 12-17, Washington DC, April 2004.
213. **M.S. Obaidat** and D. Green," SNR-WPA: An Adaptive Protocol for Mobile 802.11 Wireless LANs," Proceedings of the 2004 IEEE International Conference on Communications, ICC2004, pp. 3911-3915, Paris, June 2004.
214. N. Boudriga and **M. S. Obaidat**," Resource Management Schemes in Optical Networks," Proceedings of the IEEE XXIII International Conference of the Chilean Computer Science Society, SCCC2003, pp. 99-108, November, 2003.
215. P.Nicopolitidis, G.I.Papadimitriou, **M. S. Obaidat**, and A.S.Pomportsis," A Neural Approach to Adaptive MAC Protocols for Wireless LANs," Proceedings of the 2004 IEEE International Conference on Communications, ICC2004, pp. 4253-4257, Paris, June 2004.
216. G. I. Papadimitriou, **M. S. Obaidat**, and A. S. Pomportsis, "On the Use of Population-based Incremental Learning in the Medium Access Control of Broadcast Communication System, Proceedings of the 2003 IEEE International Conference on Electronics, Circuits and Systems, ICECS2003, pp. 1260-1263, Dec. 2003.
217. G. I. Papadimitriou, **M. S. Obaidat**, A. S. Pomportsis, H. S. Laskaridis, "Adaptive Distributed Bus Arbitration Schemes for Shared-medium ATM Switches," Proceedings of the 2003 IEEE International Conference on Electronics, Circuits and Systems, ICECS2003, pp. 515-518, Dec. 2003.

218. N. Boudriga and **M. S. Obaidat**,” Admission Control and Resource Management of Uncertain Duration Traffic in Optical Networks,” Proceedings of the 2003 IEEE International Conference on Electronics, Circuits and Systems, ICECS2003, pp. 1018-1021, Dec. 2003.
219. **M. S. Obaidat**,” Wireless Networks: Present and Future, Proceedings of the 2003 International Conference on Information Technology and Natural Sciences, ICITNS2003, pp. 1-3, October 2003.
220. P. Nicopolitidis, G. I. Papadimitriou, A. S. Pomportsis, and **M. S. Obaidat** , “A Neural-based Protocol for Distributed Wireless LANs,” Proceedings of the IEEE Systems, Man and Cybernetics Conference, 2003, pp. 3870-3875, Washington DC, October 2003.
221. G. I. Papadimitriou, T. Lagkas, **M. S. Obaidat**, and A. S. Pomportsis, “A New Approach to the Simulation of HIPERLAN Wireless Networks,” Proceedings of the 2003 European Simulation Symposium, pp. 459-468, October 2003.
222. N. Boudriga and **M. S. Obaidat**,” SPKI-based Trust Management in Communications Networks,” Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2003, pp. 719-726, Montreal, Canada, July 2003.
223. D. Green and **M. S. Obaidat**,” Dynamic Waveform-Power Adaptation in Mobile 802.11 Wireless LANs,” Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2003, pp. 116-121, Montreal, Canada, July 2003.
224. M. Suhail, and **M. S. Obaidat**,” The Simulation Impact of Varying Wavelet Decomposition Levels on Watermarking Robustness and Invisibility, Proceedings of the 2003 Summer Computer Simulation Conference, SCSC2003, Montreal, Canada, pp. 676-681, July 2003.
225. **M. S. Obaidat**,” Performance Evaluation is an Important Enabling Technology,” Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2003, pp. III, Montreal, Canada, July 2003
226. S. Guemara-Elfatmi, N. Boudriga, and **M. S. Obaidat**, Modeling of Quality of Service

- in Mobile ATM Networks,” Proceedings of the 2003 Symposium on High Performance Computing, HPC2003, pp. 207-212, March/April, 2003.
227. M. Sklira, A.S. Pomportsis, **M. S. Obaidat**, “A New Design Framework for Bank Communication Networks,” Proceedings of the 2003 Applied Telecommunications Symposium, ATS2003, pp. 106-111, March/April 2003.
228. **M. S. Obaidat**, “Research and Development in Information and Communications Technology,” 2002 UN/World Bank Workshop on Fostering Digital Inclusion-The Role of ICT in Development,” October 2002.
229. N. Boudriga and **M. S. Obaidat**,” Driving Citizens to Information and Communications Technology,” 2002 UN/World Bank Workshop on Fostering Digital Inclusion-The Role of ICT in Development,” October 2002.
230. N. Boudriga and **M. S. Obaidat**,” SPKI-Based Trust Management in Communications Networks, “Proceedings of the 2003 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2003, 2003, pp. 719-726, July 2003.
231. David Green and **M. S. Obaidat**,” Dynamic Waveform-Power Adaptation in Mobile 802.11 Wireless LANs,” Proceedings of the 2003 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2003, pp. 116-121, July 2003.
232. G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis, “On the use of Genetic Algorithms in the Medium Access Control of Broadcast Communications Networks,” Proceedings of the 2003 IEEE International Conference on Computer Networking and Mobile Computing, ICCNMC2003, pp. 3-9, October, 2003.
233. **M. S. Obaidat**, M. A. Suhail, S. S. Ipson and B. Sadoun,” Content-based Segmentation,” Proceeding of the IEEE System, Man and Cybernetics Conference, SMC2002, October 2002.
234. **M. S. Obaidat** and V. Cassod,” An ATM Adaptation Layer 5 (AAL5) Implementation and Its Performance Simulation Analysis,” Proceedings of the 2002 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2002, pp. 430-437, San Diego, California, July 2002.
235. S. Guemara-Elfatmi, N. Boudriga, **M.S. Obaidat**, and C. Ben Ahmed, “Modeling of

- Quality of Service in Mobile ATM Networks,” accepted in the 2002 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2002, San Diego, California, July 2002.
236. M. A. Suhail, **M. S. Obaidat**, S. S. Ipson, Multimedia Copyright Security Enhancement Using Haar Wavelet Transform,” Proceedings of the 2002 IEEE International Conference on Electronics, Circuits and Systems, ICECS2002, September 2002.
 237. M. M. A. Suhail, **M. S. Obaidat**, S. S. Ipson, and B. Sadoun,” Robust Feature Extraction in Digital Watermarking and Experimentation Using Simulation,” Proceedings of the 2002 Summer Computer Simulation Conference, SCSC2002, pp. 305-310, San Diego, California, July 2002.
 238. P. Nicopolitidis, G.I. Papadimitriou, **M. S. Obaidat** and A.S. Pomportsis, “3G Wireless Systems and Beyond: A Review,” Proceedings of the 2002 IEEE International Conference on Electronics, Circuits and Systems, ICECS2002, Vol. III, pp. 1047-1050, September 2002.
 239. D. Green and **M. S. Obaidat**, Modeling and Simulation of a Topology Broadcast Based on Reverse-Path Forwarding (TBRPF) Mobile Ad-hoc Network,” Proceedings of the 2002 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2002, pp. 538-544, San Diego, California, July 2002.
 240. S. Obeidat and **M. S. Obaidat**,” Performance Evaluation of Adaptive ABR Voice over ATM Networks,” Proceedings of the 2002 International Symposium on Performance of Computer and Telecommunication Systems, SPECTS2002, pp. 422-429, San Diego, California, July 2002.
 241. Nicopolitidis, G.I. Papadimitriou, **M.S. Obaidat**, and A.S. Pomportsis, “A New Protocol for Wireless LANs and Its Performance,” Proceedings of the 2002 IEEE International Conference on Communications, ICC2002, pp. 3434-3438, New York, April/May 2002.
 242. S. Guemara El Fatmi, N. Boudriga, and **M. S. Obaidat**, “Quality of Service Provision in High-Speed Networks: An Active Approach,” Proceedings of the 2002 IEEE International Conference on Electronics, Circuits and Systems, ICECS2002, Vol. III, pp. 1071-1074, September 2002.

243. Nicopolitidis, G.I. Papadimitriou, **M. S. Obaidat**, and A.S. Pomportsis, Performance Evaluation of a TDMA-based Randomly Addressed Polling Protocol,” Proceedings of the 2002 IEEE International Conference on Electronics, Circuits and Systems, ICECS2002, Vol. III, pp. 1079-1082, September 2002.
244. D. Green and **M. S. Obaidat**,” An Accurate Line of Sight Propagation Performance Model for Ad Hoc 802.11 Wireless LAN (WLAN) Devices,” Proceedings of the 2002 IEEE International Conference on Communications, ICC2002, pp. 3424-3428, New York, April/May 2002.
245. **M. S. Obaidat** and M. Suhail,” Robust Feature Extraction in Digital Watermarking,” Watermarking 2002 Conference, Paris, France, 2002.
246. Z. Al-Awwami, **M. S. Obaidat** and M. Al-Mulhem,” ZOMA: A Preemptive Deadlock Recovery Mechanism for Fully Adaptive Routing in Wormhole Networks,” Proceedings of the 2001 IEEE International Conference on Computer Networks and Mobile Computing, ICCNMC2002, pp. 519-525, Beijing, China, October 2001.
247. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, “QoS Routing with Wavelength Conversion and Connection Admission Connection in DWDM Networks,” Proceedings of the 2001 IEEE International Conference on Computer Networks and Mobile Computing, ICCNMC2002, pp. 61-66, Beijing, China, October 2001.
248. M. Suhail, **M. S. Obaidat**, S. S. Ipson, and B. Sadoun, " Simulation Study of Digital Watermarking in JPEG and JPEG 2000 Schemes," Proceedings of the 2001 Summer Computer Simulation Conference, SCSC2001, pp. 413-420, Orlando, FL, July 2001.
249. **M. S. Obaidat**, Z. H. Al-Awwami, and M. Al-Mulhem, CLIC: A New Injection Limitation Mechanism to Improve the Performance of Fully Adaptive Routing in Wormhole Networks," Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2001, pp. 105-114, Orlando, Florida, July 2001.
250. **M. S. Obaidat**, Performance Evaluation for Cost-Effective System Design and Operation," Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2001, pp. III-IV, Orlando, Florida, July 2001.
251. A. Dalal’ah, Victor Besliu, H. Abu Zaid, and **M. S. Obaidat**," Dynamic New Shortest Path (DNSP) Routing Algorithm, Proceedings of the 2001 International Symposium

- on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2001, pp. 415-422, Orlando, Florida, July 2001.
252. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, "Adaptive QoS Schemes in DWDM Networks," Proceedings of the 2002 IEEE International Conference on Communications, ICC2002, pp. 2881-2885, New York, April/May 2002.
 253. M. A. Suhail and **M. S. Obaidat**, "On the Digital Watermarking in JPEG2000," Proceedings of the 2001 IEEE International Conference on Electronics, Circuits and Systems, ICECS'01, pp. 871-874, Malta, September 2001.
 254. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, "A Prioritize Distributed Control Scheme for Call Admission Control," Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS2001, pp. 399-405, Orlando, Florida, July 2001.
 255. David B. Green and **M. S. Obaidat**, "Software Based Tools for Accurately Testing the Performance of Data Networks," Proceedings of the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'01, pp. 155-160, Orlando, Florida, July 2001.
 256. G. I. Papadimitriou, **M. S. Obaidat** and A. S. Pomportsis, "Adaptive Protocols for Single-Hop Photonic Networks with Bursty Traffic," Proceedings of the 2001 International Conference on Parallel Processing, ICPP01, pp. 227-231, Valencia, Spain, September 2001.
 257. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, "Supporting Adaptive QoS for Multiple Classes of Services in DWDM Networks," Proceedings of 2001 International Conference on Parallel Processing Workshops, ICPP-01/Workshop of Optical Networks 2001, pp. 283-288, Valencia, Spain, September 2001.
 258. Z. H. A;-Awwami, **M. S. Obaidat** and M. Al-Mulhem, "ZOMA: A Preemptive Deadlock Recovery Mechanism for Fully Adaptive Routing in Wormhole Networks," submitted to the 2001 International Conference on Computer Networking and Mobile Computing, ICCNMC2001.
 259. G.I. Papadimitriou A. S. Pomporisis, and **M. S. Obaidat**, "Adaptive Bandwidth Allocation Schemes for Lightwave LANs with Asymmetric Traffic," Proceedings of the 2001 IEEE International Performance, Computing and Communications Conference, IPCC'2001, pp. 45-50, Phoenix, AZ, April 2001.

260. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, "Real-time TCP Traffic QoS Monitoring in Wireless ATM Networks Using Aggregative Large Deviation Principle," Proceedings of the 2001 IEEE International Performance, Computing and Communications Conference, IPCCC'2001, pp. 112-119, Phoenix, AZ, April 2001.
261. **M. S. Obaidat**, G. I. Papadimitriou, and A. S. Pomportsis, Learning Automata-Based Bus Arbitration Scheme for Scalable Shared-Medium ATM Switches," Proceedings of the 2001 IEEE International Conference on Electronics, Circuits and Systems, ICECS'01, pp. 681-684, Malta, September 2001.
262. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**," A Prioritized Distributed Control Scheme for Call Admission and Control," accepted in to the 2001 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'01.
263. **M. S. Obaidat**, G. I. Papadimitriou, and A. S. Pomportsis, "Fast Learning Automata for High-Speed Real-Time Applications," Proceeding of the 200 IEEE International Conference on Electronics, Circuits and Systems, ICECS'2k, Vol. 2, pp. 633-636, December 2000.
264. M. A. Suhail and **M. S. Obaidat**," A Robust Watermarking Technique," Proceeding of the 2000 IEEE International Conference on Electronics, Circuits and Systems, ICECS'2k, Vol. 2, pp. 629-632, December 2000.
265. C. Ahmed, N. Boudriga, and **M. S. Obaidat**, "QoS Management in Wireless ATM Networks Using Large Deviation Principle," Proceedings of the 2000 IEEE Wireless Communications and Networks Conference, WCNC'2K.
266. A. Dalalah, and **M. S. Obaidat**," A Distributed Lookahead-N Routing Strategy for High Speed Telecommunications Networks and Its Performance," Proceedings of the 2000 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'2K, pp. 202-207, Vancouver, Canada, July 2000.
267. C. Ben Ahmed, N. Boudriga, and **M. S. Obaidat**, "Congestion Management in ATM Networks Using Large Deviation Principle," Proceedings of the 2000 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'2K, pp. 17-25, Vancouver, Canada, July 2000.
268. **M. S. Obaidat**, M. Suhail, and B. Sadoun, "Simulation Methodology for the Testing

- Defects in Materials,” Proceedings of the 2000 Summer Computer Simulation Conference, SCSC’2000, pp. 803-809, Vancouver, Canada, July 2000.
269. **M. S. Obaidat**,” Performance Evaluation is Vital for Efficient System Design in the Next Millennium,” Proceedings of the 2000 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS’2K, pp. III-IV, Vancouver, Canada, July 2000.
270. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, “On the Dynamic Quality of Service in Wireless **Computing** Environments,” Proceedings of the 2000 IEEE International Performance, Computing and Communications Conference, IPCCC’2000, pp. 220-226, Phoenix, AZ, February, 2000.
271. Z. Al-Awwami and **M. S. Obaidat**, and M. Al-Mulhem,” A New Deadlock Recovery Mechanism for Fully Adaptive Routing Algorithms,” Proceedings of the 2000 IEEE International Performance, Computing and Communications Conference, IPCCC’2000, pp. 132-138, Phoenix, AZ, February 2000.
272. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, “Managing Traffic in CDMA ATM Networks,” Proceedings of the 1999 IEEE International Conference on Computer Communications and Networks, IC3N’99, pp. 486-493, Boston, October 1999.
273. N. Boudriga and **M. S. Obaidat**,” accepted in the 1999 IEEE Workshop on Networking, Beirut, Lebanon, November 1999.
274. H. Khalid and **M. S. Obaidat**,” KORA-2: A New Cache Replacement Policy and Its Performance, “Proceedings of the 1999 IEEE International Conference on Electronics, Circuits, Systems, ICECS’99, pp. 265-269, Pafos, Cyprus, September 1999.
275. C. Ben Ahmed, N. Boudriga and **M. S. Obaidat**, “ Predictive Traffic Engineering in CDMA ATM Networks,” Proceedings of the International Conference on Computer Communications, ICC’99, Vol. 2, pp. 25-32, Tokyo, Japan, September 1999.
276. **M. S. Obaidat**, “Simulation and Modeling Technology for All Disciplines,” Proceedings of the 1999 Summer Computer Simulation Conference, pp. Iii-iv, Chicago, IL, July 1999.
277. **M. S. Obaidat**, “ Performance Evaluation of Computer and Telecommunication Systems is a Must for Successful Cost-Effective Designs,” Proceedings of the 1999 Symposium on Performance Evaluation of Computer and Telecommunication

Systems, SPECTS'99, pp. iii, Chicago, IL, July 1999.

278. **M. S. Obaidat**, C. Ahmed and N. Boudriga, "Traffic Engineering in ATM Networks: A Dynamic leaky Bucket-based Approach," Proceedings of the 1999 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'99, pp. 26-32, Chicago, IL, July 1999.
279. N. Boudriga, O. Hassairi and **M. S. Obaidat**, Intelligent Services Integration in Mobile ATM Networks," Proceedings of the 1999 ACM Symposium on Applied Computing, SAC'99, pp. 91-95, San Antonio, March 1999.
280. C. Ahmed, N. Boudriga and **M. S. Obaidat**, "Performance Analysis of Intelligent Mobile ATM Networks," Proceedings of the 1999 IEEE International Conference on Performance, Computing and Communications, IPCCC'99, pp.83-89, Scottsdale, AZ, February 1999.
281. **M. S. Obaidat**, C. Ben Ahmed, and N. Boudriga" Managing Mobility in Wireless ATM Networks," Proceedings of the 1999 IEEE International Conference on Performance, Computing and Communications, IPCCC'99, pp. 90-96, Scottsdale, AZ, February 1999.
282. **M. S. Obaidat**, "Performance Evaluation is Essential to Good Designs and Proper Operation," Proceedings of the 1998 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'98, pp.V, Reno, NV, July 1998.
283. **M. S. Obaidat** and M. Rehiel, "A Performance Evaluation Study of Input Buffering in ATM Switches," Proceedings of the 1998 Symposium on the Performance Evaluation of Computer and Telecommunication Systems, SPECTS'98, pp. 58-66, July 1998.
284. C. Ben Ahmed, N. Boudriga, and **M. S. Obaidat**," Optimum Design of Telecommunications Systems," Proceedings of the 1998 IEEE International Conference on Computer Communications and Networks, IC3N'98, pp. 792-799, October 1998.
285. C. Ben Ahmed, N. Boudriga, and **M. S. Obaidat**, " Evaluation of Flow Systems", Proceedings of the 1998 Symposium on the Performance Evaluation of Computer and Telecommunication Systems, SPECTS'98, pp. 340-346, July 1998.
286. **M. S. Obaidat**, C. Ben Ahmed, and N. Boudriga, " A Dynamic Approach for Resource Allocation in ATM Networks", Proceedings of the 1998 IEEE International

- Performance, Computing and Communications Conference, pp. 328-335, February 1998.
287. J. Teng and **M. S. Obaidat**, "Error Estimation in Synchronous Digital Hierarchy Networks", Proceedings of the 1998 IEEE International Performance, Computing and Communications Conference, pp. 339-345, February 1998.
 288. **M. S. Obaidat** and J. Illgen, " Preface: Simulation and Modeling Technologies for the 21st Century", Proceedings of the 1997 Summer Computer Simulation Conference, pp. III-IV, Arlington, Va, July 1997.
 289. R. Khasawneh and **M. S. Obaidat**, " A Simulation Comparison Between QRAP and DQDB in a Metropolitan Area Network", Proceedings of the 1997 Summer Computer Simulation Conference, pp. 191-196, Arlington, Va, July 1997.
 290. N. Boudriga and **M. S. Obaidat**, " Mobile Internetworking: A Neural Network Based Simulation Model", Proceedings of the 1997 Summer Computer Simulation Conference, pp. 59-63, July 1997.
 291. A. Dalal'ah and F. Davoli, P. Maryni, and **M. S. Obaidat**, "A Robust Methodology for the Design of Virtual Paths in ATM Network Systems", accepted in IEEE Systems, Man and Cybernetics Conference, pp. 3377-3382, Orlando, FL, October 1997.
 292. C. Ahmed, N. Boudriga and **M. S. Obaidat**, " Hypermedia: An Approach to Reduce Network Latency and Server Load", Proceedings of the 1997 IEEE Systems, Man and Cybernetics Conference, October 1997.
 293. **M. S. Obaidat** and J. Tang, " Performance Analysis of Parallel Frame Synchronous System in SDH Networks", Proceedings of 1997 IEEE International Conference on Computer Communications and Networks, IC3N, pp. 456-461, October 1997.
 294. R. Khasawneh and **M. S. Obaidat**, " A Simulation Comparison between DQRAB and DQDB in a Metropolitan Area Network", Proceedings of the 1997 Summer Computer Simulation Conference, pp. 191-196, SCSC'97, July 1997.
 295. R. Bolla, A. Dalal'ah, F. Davoli and **M. S. Obaidat**, " A Dynamic-Self Healing Routing Strategy for ATM Networks", Proceedings of the 1997 IEEE International Performance, Computing and Communications Conference, Pp.215-220, February 1997.

296. Jun Tang, and **M. S. Obaidat**, "A Technique to Determine Buffer Capacity in SDH Networks", Proceedings of the 1997 IEEE International Performance, Computing and Communications Conference, pp. 509-515, February 1997.
297. R. Khasawneh and **M. S. Obaidat**, " An Evaluation Study of Protocols Used in Cable TV", ACM Symposium on Applied Computing, pp. 52-57, March 1997.
298. **M. S. Obaidat**, C. Lee, Y. Zhang, H. Khelai and D. Nelson, " A Wavelet Transform-based Algorithm for Estimating the Pitch Periods of Speech Signals", Proceedings of the 1996 IEEE International Conference on Electronics, Circuits and Systems, pp. 471-474, October 1996.
299. Andy Brodzik and **M. S. Obaidat**, " Performance Evaluation of Wavelet Transform Techniques for the pitch estimation of Speech Signals", Proceedings of the 1996 Summer Computer Simulation Conference, pp. 514-519, July 1996.
300. **M. S. Obaidat** and H. Khalid, " A Cache Performance Study of the KORA Algorithm Using SPEC92", Invited paper, 1996 IEEE/NSF Conference on Performability in Computing Systems, pp. 33-46, July 1996.
301. H. Khalid and **M. S. Obaidat**, " Performance Evaluation of a New Cache Replacement Scheme Using SPEC ", Proceedings of the 1996 IEEE International Phoenix Conference on Computers and Communications, pp. 144-150, March 1996.
302. J. Teng and **M. S. Obaidat**, " 155.52 Mbit/s Parallel Frame Synchronous Scheme for SDH Networks," Proceedings of the 1996 IEEE International Phoenix Conference on Computers and Communications, pp. 321-327, March 1996.
303. K. M. Khalil, Y.S. Sun and **M. S. Obaidat**, " A Simulation Study of the Mechanisms to Enhance TCP Protocol in Wide Area Computer Networks", Proceedings of the 1996 ACM Symposium on Applied Computing, SAC'96, pp. 77-81, February 1996.
304. H. Khalid, and **M. S. Obaidat**, " High Performance Cache Memory Replacement Schemes," Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, ICECS'95, pp. 1-7, Dec. 1995.
305. J. Tang, L-M Li, and **M. S. Obaidat** , " A New Methodology for Frame Synchronous System in High Speed Networks," Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, pp. 201-208, Dec. 1995.

306. **M. S. Obaidat**, and H. Khalid," Performance Evaluation of Neural Network Paradigms for Ultrasonic Transducers Characterization", Proceedings of the IEEE International Conference on Electronics, Circuits and Systems, pp. 370-376, Dec. 1995.
307. H. Khalid, and **M. S. Obaidat**," A Novel Cache Controller using Neural Networks: Simulation and Algorithm", Proceedings of the 1995 Summer Computer Simulation Conference, pp. 767-772, Ottawa, Canada, July 1995.
308. **M. S. Obaidat and H. Khalid**" A Performance Evaluation Methodology for Computer Systems", Proceedings of the 1995 IEEE Phoenix Conference on Computers and Communications, pp. 713-719, Scottsdale, AZ, March 1995.
309. **M. S. Obaidat**," A Verification Methodology for Computer Systems Users", Proceedings of the 1995 ACM Symposium on Applied Computing, pp. 258-262, Nashville, TN, Feb. 1995.
310. **M. S. Obaidat**," CompSec: A Neural Network System for Computer Access Security," Int'l Conference on Computers and Information Systems, Amman, Jordan, August 1994
311. **M. S. Obaidat**," The Architecture and Application of a New Neural Network Model", Proceedings of the 1994 IEEE Int'l Conference on Electronics, Circuits and Systems, pp. 712-719, December 1994.
312. **M. S. Obaidat**," A Performance Evaluation Study of 2-Level Cache System Using Different Replacement Combinations", Proceedings of the 1994 Summer Computer Simulation Conference, pp. 157-162, July 1994.
313. **M. S. Obaidat**, H. Khalid, and K. Sadiq," Performance Evaluation of CISC Computer Systems under Single and Two-Level Cache Environments, Proceedings of the ACM 1994 Annual Computer Science Conference, pp. 226-248, Phoenix, Arizona, March 1994.
314. **M.S. Obaidat**," A Comparative Performance Study of Neural Networks Paradigms for Identifying Computer Users", Proceedings of the 1994 IEEE Phoenix Conference on Computers and Communications, pp. 161-167, Phoenix, AZ, April 1994.
315. **M.S. Obaidat**," Performance of Packet Switching Techniques in Computer Networks Using COMNET II.5", Proceedings of the 1993 Summer Computer Simulation

Conference, pp. 116-118, Boston, MA, July 1993.

316. **M.S. Obaidat**, "A Neural Network Paradigm and Its Performance", Proceedings of the 1993 International Simulation Technology Conference, SimTec'93, pp. 263-268, San Francisco, CA, Nov., 1993.
317. B. Sadoun and **M.S. Obaidat**, "Design with Climate: A modeling Technique", Proceedings of the 1993 Summer Computer Simulation Conference, pp. 455-457, Boston, MA, July 1993.
318. **M. S. Obaidat** and D. Donahue, "WBTPE: A Priority Ethernet LAN Protocol", Proceedings of the 1993 Annual Computer Science Conference, pp.243-250, Indianapolis, IN, February 1993.
319. **M.S. Obaidat**, "A Versatile Video Pattern Generator for Vision Test", Proceedings of the IEEE Phoenix Conference on Computers and Communications, pp. 545-551, March 1993.
320. **M.S. Obaidat**, "A Methodology for Partitioning Long Local Computer Networks", Proceedings of the IEEE Phoenix Conference on Computers and Communications, pp. 275-281, March 1993.
321. **M.S. Obaidat**, "A Video Pattern Generator for Vision Test", Proceedings of 1992 the IEEE Midwest Symposium on Circuits and Systems, pp. 282-285, Washington, D.C., July 1992.
322. **M.S. Obaidat**, "A Comparative Performance Study of Pattern Recognition Techniques for Computer Access Security", Proceedings of SimTec'92 Conference, pp. 314-316, Clear Lake, TX, Nov. 1992.
323. **M.S. Obaidat**, "A Simulation Study of the Performance of Ethernet and Token Bus Local Networks", Proceedings of SimTec'92 Conference, pp.618-620, Clear Lake, TX, Nov. 1992.
324. **M.S. Obaidat** and D.T. Macchairlo, "on-line Neurocomputing System to Identify Computer Users," Proceedings of the 1992 Summer Computer Simulation Conference, pp. 403-407, Reno, NV, July 1992.
325. **M.S. Obaidat**, "On the Performance of Token Bus and Ethernet LANs", Proceedings of the 1992 Modeling and Simulation Conference, pp. 1227-1234 Pittsburgh, PA, May

1992.

326. **M.S. Obaidat** and B. Satish," A New Partitioning Scheme for Long Local Computer Networks", Proceedings of the 1992 Modeling and Simulation Conference, pp. 1243-1250, Pittsburgh, PA, May 1992.
327. **M.S. Obaidat** and D. Abu-Saymeh," An Intelligent Video Pattern Generator for Use in Ophthalmology", Proceedings of the 1993 ACM Symposium on Applied computing, pp.660-667, Indianapolis, IN, February 1993.
328. B. Sadoun, and **M. S. Obaidat**," A Simulation Experiment to Choose the Optimal Solar Access Site Design in Planning", Proceedings of 1992 SimTec'92 Conference, pp. 621-625, Clear Lake, TX, Nov. 1992.
329. **M.S. Obaidat** and D.S. Abu-Saymeh, "Performance Comparison of Neural Networks and Pattern Recognition Techniques for Classifying Ultrasonic Transducers," Proceedings of the 1992 ACM Symposium on Applied Computing, pp.1234-1242, Kansas City, MO, March 1992.
330. **M.S. Obaidat** and M.M. Matalgah, "Performance of the Short-time Fourier Transform and Wavelet Transform to Phonocardiogram Signal Analysis," Proceedings of the 1992 ACM Symposium on Applied Computing, pp.856-863, Kansas City, MO, March 1992.
331. **M. S. Obaidat**," Performance of Packet Switching Techniques in Computer Networks Using COMNET II.5", Proceedings of the 1993 Summer Computer Simulation Conference, pp. 116-118, Boston, July 1993.
332. S.A. Bleha, J. Knop, and **M.S. Obaidat**, "Performance of the Perceptron Algorithm for the Classification of Computer Users," Proceedings of the 1992 ACM Symposium on Applied Computing, pp. 863-867, Kansas City, MO, March 1992.
333. **M.S. Obaidat**, "On the Performance of Neural Networks and Pattern Recognition Paradigms for Classifying Ultrasonic Transducers," Proceedings of the IEEE CompEuro '92 Conference, pp. 710-715, The Hague, The Netherlands, May 1992.
334. **M. S. Obaidat** and D.S. Abu-Saymeh" Neural Network and Pattern Recognition Techniques for Characterizing Ultrasonic Transducers" Proceedings of the 1992 IEEE Phoenix Conference on Computers and Communications, pp.729-735, April 1992.

335. **M. S. Obaidat**, "MTR: A New Token Ring Protocol and Its Performance", Proceedings of the 1992 Annual ACM Computer Science Conference, pp. 261-266, Kansas City, MO, March 1992.
336. **M.S. Obaidat** and M.A. Al-Rousan, "Performance Evaluation of a New Token Ring Protocol for Local Networks", Proceedings of the 1991 Simulation Technology Conference International, SimTec'91, pp.424-426, Orlando, FL, October 1991.
337. **M.S. Obaidat**, " On the Performance of Crossbar Switch-based Multiprocessors", Proceedings of the 1991 Simulation Technology Conference International, SimTec'91, pp. 76-79, Orlando, FL, October 1991.
338. **M.S. Obaidat** and D. Abu-Saymeh, "A Methodology for Evaluating the Performance of RISC Processors," Proceeding of the 1991 IEEE/ACM Symposium on Applied Computing, pp.213-222, Kansas City April 1991.
339. **M. S. Obaidat** and J. Anderson, " An Intelligent Tutoring System for Basic Electronics", Proceedings of the IEEE Melcon'91, pp. 112-117, May 1991.
340. **M.S. Obaidat**, " Performance of RISC-Based Multiprocessors with Homogeneous and Nonhomogeneous Traffic Flow", Proceeding of the 22nd Annual Pittsburgh Modeling and Simulation Conference, Vol. 22, Pt.2, pp. 1129-1136, Pittsburgh, May, 1991.
341. **M.S. Obaidat** and D. Abu-Saymeh, "A New Performance Evaluation Model for RISC Multiprocessors," Proceedings of the SCS 1991 Summer Computer Simulation Conference, pp.287-292, Baltimore, MD, July 1991.
342. **M.S. Obaidat** and J.Walk, "An Evaluation Study of Traditional and Neural Network Techniques for Image Processing Applications," Proceeding of the IEEE 34th Midwest Symposium on Circuits and Systems, pp. 72-76, Monterey, CA, May 1991.
343. J.W. Ekis, **M.S. Obaidat** and S.A. Bleha, "Characterization of Ultrasonic Transducers Using Pattern Recognition Techniques," proceedings of the 1990 Fall American Society for Nondestructive Testing Conference, Seattle, October 1991.
344. **M. S. Obaidat** and M. A. Radaideh, "Performance Models for the Bus-oriented Multiprocessor Computer Systems," Proceedings of the 1990 SCS Summer Computer Simulation Conference, pp. 153-158, Calgary, Canada, 1990.
345. **M. S. Obaidat**, "Simulation Modeling of the Bus-oriented Multiprocessor Systems,"

Proceedings of the 21st Annual Pittsburgh Conference on Modeling and Simulation, Vol. 21, Pt.3, pp. 1137-1141, Pittsburgh, PA, May 1990.

346. **M. S. Obaidat**, "Modeling of the IMPS Multiprocessor System," Proceedings of the 1989 SCS Summer Computer Simulation Conference, pp. 73-78, Austin, TX, 1989.
347. **M. S. Obaidat**, J. M. Jagadeesh, and L. E. Leguire, "A Computerized Random Element Stereogram Generator: Design and Experiments," Proceedings of the IEEE Symposium on the Engineering of Computer-based Systems, pp. 133-138, Minneapolis, MN, 1988.
348. **M. S. Obaidat**, J. M. Jagadeesh, and G. M. Clark, "The OSUIMP Multiprocessor System," Proceedings of the IEEE COMP EURO-87, pp. 882-884, Hamburg, W. Germany, 1987.
349. **M. S. Obaidat**, J. M. Jagadeesh, and G. M. Clark, "A Modular Multiprocessor System for Image Processing," Proceedings of the IEEE Phoenix Conference on Computers and Communications, pp. 518-524, Scottsdale, AZ, 1987.
350. **M. S. Obaidat**, J. M. Jagadeesh, L. E. Leguire, G. L. Rogers, and D. L. Bremer, "A Microcomputer-Based Random Element Stereogram Generator for Use in Ophthalmology," Proceedings of the International Conference in Biomedical High Technology, pp. 120-122, Ohio State University, Columbus, 1987.
351. **M. S. Obaidat**, "Analytical and Simulation Modeling of the IMPS Multiprocessor System," Proceedings of the 19th Annual Modeling and Simulation Conference, Pittsburgh, PA, 1988.
352. **M. S. Obaidat** and J. M. Jagadeesh, "An Intelligent Video Tape Recorder Controller for Image Processing," Proceedings of the International Congress on Computers in Biotechnology, pp. 20-21, Baltimore, 1986.

Invited Keynote Speeches, Lectures and Seminars

- **M. S. Obaidat**, "The Role of Wireless Network Systems as a Key Enabling Technology for Smart Homes and Cities and Samples of our Related Works," IEEE International Conference on Cloud Computing and Data Science and Engineering, Confluence 2017, Deli, India, January 2017.
- **M. S. Obaidat**, "Key Enabling Technologies for Smart Homes and Cities and Samples of Our Related Efforts," 2017 IEEE International Conference on Mathematics and

Computers, ICMC 2017, Haldia, W. Bengal, India, January 2017.

- **M. S. Obaidat,** "How to Make a Successful SSR and ABET Visit?" University of Jordan, Amman, November 2016.
- **M. S. Obaidat,** "Issues in Big Data," Panel Organizer, ICETE 2016, Lisbon, Portugal, July 2016.
- **M. S. Obaidat,** "A Novel Efficient Elastic Node Addressing Technique for Next-Generation Network Systems," Invited Keynote, BUPT, Beijing, China, March 2016.
- **M. S. Obaidat,** "Trends in Wireless Networks as an Enabling Technology for Smart Homes and Cities and Samples," Invited Keynote Speech, Yunnan Minzu University, Kunming, China, March 2016.
- **M. S. Obaidat,** "On the Role of Wireless Network Systems for Smart Homes and Cities and Samples of our Related Recent Works," Invited Keynote Speech, IBM TJ Watson, NY, USA, Dec 2015. =
- **M. S. Obaidat,** "On the Role of Wireless Networks as a Key Enabling Technology for Smart Homes and Cities," Invited Keynote Speech, University of Agder, Grimstad, Norway, October, 2015,
- **M. S. Obaidat,** "Communications in Smart Cities," Panel Organizer, ICETE 2015, Colmar, France, July 2015.
- **M. S. Obaidat,** "Advances in Modeling and Simulation of Computer Networks and Systems" Panel Organizer, SIMULTECH 2015, Colmar, France, July 2015.
- **M. S. Obaidat,** "On the Applications of Wireless Networks to Smart Cities," Keynote at the IEEE 2015 Cybermatics International Conference, Beijing, China, August 2015.
- **M. S. Obaidat,** "Top 10 Challenges for Smart World," Panelist at IEEE 2015 Cybermatics International Conference, Beijing, China, August 2015.
- **M. S. Obaidat,** "Trends and Challenges in the Key Enabling Information and Communication Technologies for Smart Cities," Invited Keynote Speech by Wuzi University, Beijing, China, August 2015.
- **M. S. Obaidat,** "A New Learning Automaton-based Context Oriented Middleware Architecture for Agriculture," Invited Keynote Speech by Fudan University, Shanghai, China, Aug 2015.
- **M. S. Obaidat,** "On the Role of Wireless Networks as a Key Enabling Technology for Smart Homes and Cities and Samples of our Related Recent Works," Invited Keynote Speech, Fordham University, NY, USA, Feb 2015.
- **M. S. Obaidat,** "A Methodology to Predict the Forthcoming Sleep Period in XG-PON Systems Using Exponential Smoothing Approaches," Invited Keynote Speech by Beijing University of Post and Telecommunications (BUPT), Beijing, China, Dec 2014.
- **M. S. Obaidat,** "On the Estimation of the Upcoming Sleep Period in XG-PON Systems Using Exponential Smoothing Techniques," Invited Keynote Speech by Xidian University, Xian, China, Dec 2014.
- **M. S. Obaidat,** "Key Enabling ICT Systems for Smart Homes and Cities: The Opportunities and Challenges," Keynote Speech at the 2014 IEEE International Conference on Network Infrastructure and Digital Content (IC-NIDC), Beijing, China, September 2014.

- **M. S. Obaidat**,” On the Recent Advances in Smart Cities and Homes Samples of Our Related Works,” Invited Keynote Speech by Xidian University, Xian, China, Sep 2014.
- **M. S. Obaidat**,” Fundamental Empowering ICT Systems for Smart Cities and Homes,” Invited Keynote Speech by University of Science and Technology Beijing, Beijing, China, Sep 2014.
- **M. S. Obaidat**,” Plenary Panelist and Plenary Session Chair at SIMULTECH 2014: “Recent Issues and Trends in the Validation and Verification of Simulation Models,” Vienna, Austria, August 2014.
- **M. S. Obaidat**,” Plenary Panelist and Plenary Session Chair at ICETE 2014: “Recent advances in smart cities,” Vienna, Austria, August 2014.
- **M. S. Obaidat**,” Keynote Speech at the 2014 FTRA International Conference on Ubiquitous Context-Awareness and Wireless Sensor Network (UCAWSN-14), July 7-10, 2014, Jeju, Korea.
- **M. S. Obaidat**,” Recent Developments and Challenges in Green Information and Communications Systems and Samples of our Related Research Works,” Main Keynote Speech at the 2014 PSU Engineering Symposium, PSU, KSA, Feb 2014.
- **M. S. Obaidat**,” On the Advances and Challenges in Smart Homes and Cities and Samples of our Recent Related Works,” Keynote Speech at the 2013 IEEE World Ubiquitous Science Congress (U-Science2013), Chengdu, China, Dec 2013.
- **M. S. Obaidat**,” ICT Systems for Smart Homes and Cities and Samples of our Recent Related Works,” Invited Keynote Speech by Beijing University, of Post and Telecommunications (BUPT), Beijing, China, Dec 2013.
- **M. S. Obaidat**,” A Novel Biometric Scheme for Risk-Based Authentication in Web Environments,” Keynote Speech at the 2013 IEEE World Cybermatics Congress: 2013 IEEE International Conference on Internet of Things (iThings 2013), 2013 IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2013) and 2013 IEEE International Conference on Green Computing and Communications, GreenCom 2013), Aug 2013.
- **M. S. Obaidat**,” Plenary Panelist and Plenary Session Chair at ICETE 2013: “ICT Technology for Smart Cities and Homes,” Reykjavik, Iceland, July 2013.
- **M. S. Obaidat**,” On the Fundamentals of Modeling and Simulation and Advances and Challenges,” Keynote Speech at the 2013 International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH), Reykjavik, Iceland, July 2013.

- **M. S. Obaidat**,” On the Trends and Challenges in Green Information Systems, “Keynote Speech at the 20132 International Conference on Information Technology, May 2013.
- **M. S. Obaidat**,” Advance son the Security of Communication Networks, “,” Invited Talk, IEEE Computer Society, UAE Chapter and Khalifa University of Science, Technology and Research (KUSTAR), Abu Dhabi, UAE, January 2013.
- **M. S. Obaidat**,” On the Recent Advances of the Security of Computer Networks and Samples of Some of our Recent Related Works,” Keynote Speech at the 2012 International Conference on Ubiquitous Information Technologies & Applications (CUTE 2012), Hong Kong, Dec 2012.
- **M. S. Obaidat**,” Trends and Issues in Smart Homes and Cities,” IEEE Fellows Panel Session at the APEC Smart City Industrial Technology Cooperation Forum, Changzhou, Dec 2012.
- **M. S. Obaidat**,” New Trends and Challenges in Green ICT and Samples of Some of our Related Efforts,” Fudan University, Shanghai, China, Dec 2012.
- **M. S. Obaidat**,” A Biometric Methodology for Risk-Based Authentication in Web Environments” Beijing University of Post and Telecommunications, BUPT, Beijing, China, Nov 2012.
- **M. S. Obaidat**,” Advances, Trends and Challenges in Smart and Digital Homes and Samples of our Recent Works,” Keynote Speech at the 2012 IEEE International Conference on Digital Home, ICDH 2012, Guangzhou, China Nov 2012.
- **M. S. Obaidat**,” Trends and Challenges in Green Information and Communication Technologies (ICT) and Samples of our Related Research Works,” Invited Talk, Office of Senior Vice President for Research and Development, Khalifa University of Science, Technology and Research (KUSTAR), Abu Dhabi, UAE, Nov 2012.
- **M. S. Obaidat**,” Plenary Panelist and Plenary Session Chair at SIMULTECH 2012: “Trends and Challenges in Modeling and Simulation”, Rome, Italy, July 2012.
- **M. S. Obaidat**,” Plenary Panelist and Plenary Session Chair at ICETE 2012: “Recent Advances in the Security of Telecommunication and Network Systems” Rome, Italy, July 2012.
- **M. S. Obaidat**,” Future of Green Information and Communication Systems and Samples of our Related Research Works,” An Invited Talk at Beihang University, Beijing, Dec 2011.
- **M. S. Obaidat**,” Recent Advances and Trends in Wireless Networks,” An Invited Talk at

BUPT, Beijing, Dec 2011.

- **M. S. Obaidat**,” Future of Green Information and Communication Systems and Samples of our Related Research Works,” An Invited Talk at Fudan University, Shanghai, Dec 2011.
- **M. S. Obaidat**,” Future of Green Information and Communication Systems and Samples of our Related Research Works,” An Invited Talk at the Shanghai Research Center for Wireless Communications, Dec 2011.
- **M. S. Obaidat**,” On the Fundamentals of Modeling and Computer Simulation,” A Keynote at the 2011 Nebraska Research and Innovation Conference (NRIC), Omaha, NE, September 27, 2011.
- **M. S. Obaidat**,” Future of Green Information and Communication Systems and Samples of our Related Research Works, Beijing University of Post and Telecommunications, BUPT, October 2011.
- **M. S. Obaidat**,” On the Trends and Challenges in Green Information and Communication Technology and Samples of Some of our Related Research Results,” A Keynote Speech at FTRA World Convergence Congress, Jeju, Korea, December 2011.
- **M. S. Obaidat**,” Recent Trends and Challenges in Wireless Network Systems,” A Keynote Speech at International Conference on Next Generation Mobile Applications, Services and Technologies (NGMAST’11), Cardiff, UK, September 2011.
- **M. S. Obaidat**,” Performance Evaluation of Computer and telecommunication Systems,” INFORTE Seminar, Tampere University of Technology, Finland May 2011.
- **M. S. Obaidat**,” Trends in Green Information and Communication Technology and Samples of our Related Research Works,” A Keynote Speech at the joint IEEE/ACM International Conference on Green Computing and Communications, GreenCom 2010, and the 2010 IEEE/ACM International Conference on Cyber, Physical and Social Computing (CPSCom 2010), Hangzhou, China, December 2010.
- **M. S. Obaidat**,” Recent Trends and Challenges in the Security of e-Systems and Computer Networks,” A keynote at the InfoWare2010 International Multiconference, Valencia, Spain, September 2010.
- **M. S. Obaidat**,” Recent Trends and Challenges in the Security of e-Systems and Computer Networks,” A keynote at the 2010 International Conference on Information Technology Convergence and Services (ITCS-10), August 2010.
- **M. S. Obaidat**,” On the Trends in the Security of e-Systems and Computer Networks,” A keynote at the National Ilan University, Ilan, Taiwan, August 2010.
- **M. S. Obaidat**,” On the Trends in the Security of e-Systems and Computer Networks,” A keynote at the Tamkang University, Tamsui, Taiwan, August 2010.
- **M. S. Obaidat**,” Schemes for the Analysis of Rechargeable Nodes in Wireless Sensor Networks, A keynote at the University of Seville, Spain, June 2010.
- **M. S. Obaidat**,” Advanced E-Business and Digital Security Technologies Management: Strategic Options for Enhancing System Integrity Healing Data Compromise, and Preventing Process Failures in a World of New e-Security Threats, Fears and Attacks,” A Keynote at the 2010 TransnationalHCS, Lagos, Nigeria, January 2010.
- **M. S. Obaidat**,” Advances and Challenges in Security of Wireless Networks,” A keynote at the 2009 International Conference on Ubiquitous Information Technologies &

Applications (ICUT-09), Fukuoka, Japan, Dec 2009.

- **M. S. Obaidat**,” On the Security of e-Systems and Computer Networks,” A keynote at the University of Seville, Seville, Spain, July 2008.
- **M. S. Obaidat**,” Issues in Security of Wireless Network Systems,” An Invited Panel Moderator and Chair, 2008 IEEE International Conference on e-Business and Telecommunications, IETE 2008, Porto, Portugal, 2008.
- **M. S. Obaidat**,” Trends in the Security of e-Systems and Computer Networks,” A keynote at the University of Oviedo, Gijon Campus, Spain, July 2008.
- **M. S. Obaidat**,” Fundamentals of Wireless Network Systems, Invited Tutorial, IEEE International Conference on Electronics, Circuits and Systems, ICECS 2008, Malta, August 31, 2008.
- **M. S. Obaidat**,” Trends and Challenges in Wireless Systems,” Keynote at the 2007 IEEE International Conference on Electronics, Circuits and Systems Conference, ICECS 2007, Marrakech, Morocco, Dec. 2007.
- **M. S. Obaidat**,” Future Trends in Wireless Networks-Applications to Postal Services,” Keynote Speech at the Universal Union of Postal Services Postech 2007 Conference, Jeddah, Saudi Arabia, Nov. 2007.
- **M. S. Obaidat**,” Future and Challenges of the Security of E-Systems and Computer Networks,” Main Keynote Speech, IEEE International Joint Conference on E-Business and Telecommunications Networks, ICETE 2007 (ICETE 2007 Consists of 4 Major International Conferences: ICE-B, SCRYPT, SIGMAP and WINSYS), Barcelona, Spain, July 2007.
- **M. S. Obaidat**, “On the Recent Trends in Wireless Networks,” Invited Talk, Faculty of ICT, Islamic International University, Malaysia, Kuala Lumpur, Malaysia, August 2007.
- **M. S. Obaidat**, “Future of Telecommunications Systems,” Conference Plenary Panel, Organizer and Plenary Panel Chair, IEEE International Conference on E-Business and Telecommunications Networks, ICETE 2006, Setubal, Portugal, August 2006.
- **M. S. Obaidat**, “Challenges in Wireless Communication Networks,” Keynote Speech, 2006 IEEE International Symposium on Computer Networks, IDSCN 2006, Istanbul, Turkey, June 2006.
- **M. S. Obaidat**, “Recent Challenges in Wireless Networks Security,” Invited Lecture, Kuwait University, Kuwait, May 2006.
- **M. S. Obaidat**, “Recent Trends in Wireless Networking,” Invited Lecture, Kuwait University, Kuwait, May 2006.
- **M. S. Obaidat**, “Trends and Challenges in Wireless Networks,” Keynote Speech, 2005 IEEE International Conference on E-Business and Telecommunications Networks, ICETE 2005, Reading, London, 2005.
- **M. S. Obaidat**,” Fundamentals of Wireless Networks,” Tutorial, 2005 International Conference on E-Business and Telecommunications Networks, ICETE 2005, Reading, London, October 2005.
- **M. S. Obaidat**, Novel Protocols for Wireless Systems,” Keynote Speech, Institute of Computer and Communication Institute, National Cheng Kung University Taiwan, June 2005.

- **M. S. Obaidat**, “Recent Advances in Wireless Systems, Keynote Speech, “Institute for Information Industry (III), Kaohsiung, Taiwan, June 2005.
- **M. S. Obaidat**,” Essentials of Wireless Networks,” Tutorial, 2005 International Conference on Information Technology: Research and Education, Hsinchu, Taiwan, June 2005.
- **M. S. Obaidat**,” Trends and Challenges in Wireless Networks Security,” Keynote Speech, International Workshop on Wireless Security Technology,” London, United Kingdom, April 2005.
- **M. S. Obaidat**,” Impact of Information Technology on Human Culture,” Keynote Speech, Philadelphia University, Jordan, Dec 2004.
- **M. S. Obaidat**,” New Protocols for Wireless Networks,” Keynote Speech, Jordan International Conference on Computer Science and Engineering, JICCSE2005, Al-Balqa’ Applied University Campus, Salt, Jordan, October 2004.
- **M. S. Obaidat**,” Recent Research in Wireless Networks: Present and Future,” Invited Keynote Speech at the International Chilean Computer Science Society Conference, Chile, November 2003.
- **M. S. Obaidat**,” Fundamentals of Wireless Networks,” Invited Tutorial, IEEE International Conference on Electronics, Circuits and Systems, ICECS2003, December 2003.
- **M. S. Obaidat**,” Wireless Networks: Present and Future,” Keynote Speech at the International Conference on Information Technology and Natural Sciences, AICITNS2003, October 2003.
- **M. S. Obaidat**,” Wireless Networks: Some of Our Recent Works,” Invited Keynote Speech, University of Girona, Spain, September 2003.
- **M. S. Obaidat**,” Trends in Telecommunications Networking,” Invited Keynote Speech. University of Girona, Spain, September 2003.
- **M. S. Obaidat**,” Trends in Information and Telecommunications Technology,” Keynote Speech at the ACIT2002 Conference, 2002.
- **M. S. Obaidat**,” Driving Citizens to Digital Technology,” University of Qatar, December 2002.
- **M. S. Obaidat**, A New Deadlock Recovery for Wormhole Switched Networks,” University of Alabama, August 2002.

- **M. S. Obaidat**, A Novel Mechanism for Deadlock Recovery in wormhole Networks,” West Virginal University, April 2002.
- **M. S. Obaidat**, " Trends and Challenges in Telecommunications Networking," Tampere University of Technology, Tampere, Finland, June 28, 2001.
- **M. S. Obaidat**, " Performance Evaluation of Computer and Telecommunications Systems," IEEE ICC2001 Conference, A One-Day Tutorial, Helsinki, Finland, June 11, 2001.
- **M. S. Obaidat**, " Novel Mechanisms for Improved Adaptive Routing in Wormhole Switched Networks, Tampere University of Technology, Tampere, Finland, June 8, 2001.
- **M. S. Obaidat**,” Information Technology Going into the 21st Century,” Keynote Address presented at the ACIT’2000 Conference, Amman, Jordan, October 2000.
- **M. S. Obaidat**, Novel Mechanism for Deadlock Recovery in Wormhole Systems, DIST, University of Genoa, June 2000.
- **M. S. Obaidat**,” New Wormhole Switched Networks Algorithm, Torino Polytechnic, Torino, Italy, June 2000.
- **M. S. Obaidat**,” Performance Evaluation of Computer and Telecommunications Systems,” A Short Course Taught at Tampare University of Technology, Tampare, Finland, May 2000 and June 2001.
- **M. S. Obaidat**,” An Efficient New Deadlock Recovery Scheme for Wormhole Switched Networks,” Tampare University of Technology, Tampare, Finland, May 2000.
- **M. S. Obaidat**,” A Novel Deadlock Recovery Scheme for Wormhole Switched Networks,” University of Idaho, USA, April 2000.
- **M. S. Obaidat**,” A Novel Scheme for Deadlock Recovery in Wormhole Switched Network,” Oklahoma State University, USA, April 2000.
- **M. S. Obaidat**,” A New Mechanism for Deadlock Recovery in Switched Networks,” Colorado School of Mines, Colorado, USA, April 2000.
- **M. S. Obaidat**,” A New Deadlock Recovery Mechanism for Fully Adaptive Routing Algorithms in Wormhole Switched Networks,” University of Miami, Florida, USA, March 2000.

- **M. S. Obaidat**, "Performance Evaluation of High Performance Systems", ACM Distinguished Lecture, Allegheny College, Meadville, PA, December 1999.
- **M. S. Obaidat**, "Parallel Synchronization Scheme for SDH Systems," University of Aizu, Aizu-Wakamatsu, Japan, September 1999.
- **M. S. Obaidat**, "Performance Evaluation of Super Computers and HPC Systems," Al-Isra University, Amman, Jordan, June 1999.
- **M. S. Obaidat**, "Information Technology and Year 2000," Abdelhamid Shoman Foundation, Amman, Jordan, June 1999.
- **M. S. Obaidat**, "Y2K Computer Problem," Hofuof Teaching College and Chamber of Commerce and Trade, Hofuof, Saudi Arabia, May 1999.
- **M. S. Obaidat**, "A Novel Cache Replacement Scheme," Northern Illinois University, DeKalb, IL, February 1999.
- **M. S. Obaidat**, "KORA: A High Performance Cache Replacement Scheme," King Fahd University of Petroleum and minerals, Saudi Arabia, November 1998.
- **M. S. Obaidat**, "A High Performance Cache Replacement Algorithm," Howard University, Washington, DC, October 1998.
- **M. S. Obaidat**, "Performance Evaluation of Computer and Telecommunication Systems," University of Oslo, Norway, August 1998.
- **M. S. Obaidat**, "Performance Evaluation of Computer Systems and Networks," Tampare University of Technology, Tampare, Finland, August 1998.
- **M. S. Obaidat**, "On-line Neural Network System for Computer Access Security", New York City Chapter of ACM, ACM Distinguished Lecture Series, April 1997.
- **M. S. Obaidat**, "KORA: A Cache Replacement Scheme and Its performance", Ohio University, Athens, Ohio, June 1996.
- **M. S. Obaidat**, "Performance Evaluation of Computer Systems and Networks", IEEE Distinguished Lecture, IEEE Portland Section, May 1996.
- **M. S. Obaidat**, "A High Performance Cache Replacement Algorithm", Portland State University and IEEE Portland Section, IEEE Distinguished Lecture, May 1996.
- **M. S. Obaidat**, "Wavelet Algorithms for the Estimation of Pitch Period of Speech Signals", CUNY Symposium on Computational Neuroscience, May 1, 1996.

- **M. S. Obaidat**, " A Novel High Performance Cache Replacement Algorithm", Monmouth University, April 1996.
- **M. S. Obaidat**, " Performance Evaluation of Computer Systems and Networks", IEEE NJ Shore Joint Chapters of Computer and Communication, IEEE Distinguished Lecture, April 1996.
- **M. S. Obaidat**, " Performance Evaluation of Computer Systems and Networks", IEEE and HKN Sections of City College of New York, September 1995.
- **M. S. Obaidat**, " High Performance Massively Parallel Processors", Jordan Computer Society, August 1994.
- **M. S. Obaidat**, " High Performance Computing and Distributed Simulation", Panel Chair and Organizer, 1994 Summer Computer Simulation Conference, La Jolla, CA, July 1994.
- **M. S. Obaidat**, " Applied Neural Network Computing", CMIPS, City College of New York, December 1993.
- **M. S. Obaidat**, " Impact of High Performance Computers on Simulation Technology", Panel Chair and Organizer, 1993 Summer Computer Simulation Conference, Boston, MA, July 1993.
- **M. S. Obaidat**, " Parallel and High Performance Computers", HKN Chapter of the City College of New York, April 1993.
- **M. S. Obaidat**, " Methodologies for Evaluating RISC Single and Multiprocessors Systems", The University of Central Florida, Orlando, April 1992.
- **M. S. Obaidat**, " Local Network Protocols", ASTA, Amman, Jordan, August 1992.
- **M. S. Obaidat**, "IEEE Membership: Career Enhancement and Benefits", IEEE S-PAC Conference, Kansas State University, Manhattan, KS, March 1992.
- **M. S. Obaidat**, " A New Protocol for Token Ring Local Area Networks", Invited Seminar by IEEE Computer Society, Kansas City, August 1991.
- **M. S. Obaidat**, " Characterizing Ultrasonic Transducers Using Pattern Recognition, Invited Seminar by IEEE Computer Society, Kansas City, March 1991.
- **M. S. Obaidat**, "Rapid Development of Software," Panelist, IEEE 35th VideoConference, Overland Park, KS, May 2, 1990.

- **M. S. Obaidat**, "The Design of a Modular Time-shared based Multiprocessor System," poster presented on the PARBASE-90 Conference, Miami Beach, FL, March 1990.
- **M.S. Obaidat**, "The IMPS Multiprocessor System", A seminar presented in the Department of Electrical and Computer Engineering, University of Missouri-Columbia, June 1989.
- **M. S. Obaidat**, "Performance Evaluation of Multiprocessor Computer Systems," presented in the ASST/UNESCO Winter Session, Queueing Theory and Computer Applications, Damascus, 1988 (also appear in the meeting's Proceedings pp. 9.1-9.25).
- **M.S. Obaidat**, "Multiprocessor Systems ", Department of Electrical and Computer Engineering, University of Missouri- Truman Campus, MO, 1989.
- **M. S. Obaidat**, "Microprocessor Systems and Their Applications," Seminar presented at the College of Engineering Workshops for Industry, Jordan University of Science and Technology, Irbid, 1989.
- **M. S. Obaidat**, "A Prospective View on the Applications of Computers in Jordan," Seminar, presented in the Jordan University of Science and Technology Series of Seminars to serve local community, Irbid, 1987.

Other Professional Activities

- Served as Ph.D. advisor for many including Humayun Khalid, Jun Teng, Ahmad Dalal'ah, Chihab Ahmed, Mohamed Hamdi, Virginia Gasull.
- Served as External Examiner for Ph.D. Dissertations for students at University of Oslo (Norway), Indian Institute of Technology (India), Columbia University, Rutgers University, Glasgow University (UK), Tampere University of Technology (Finland) 2 times, University of Rouen (France), University of Carthage (Tunisia), Carleton University (Canada), National Institute of Technology Calicut, India and SASTRA University, India . Among these the Ph.D. Dissertations of Frode Nelson, Ayman Abu Hamdieh, C. Bonevista, Mohammed Awwad, Kimmo Pulakka, Kalaf Katatneh, Sudip Misra, Avadora Dumitrescu, P. C. NEELAKANTAN, D. Manivannan, RISHIVARMAN A. R., Rakesh Kumar, HARIS P A., ALAGESWARAN R., NEELAKANTAN P.C., among others.
- Served as Advisor for the President of Philadelphia University (He became in April 2005 the Prime Minister of Jordan), Jordan, 2004/2005.
- President and Chair of the Board of Directors, The Society for Modeling and

Simulation International, SCS (2009-2011).

- Senior Vice President, The Society for Modeling and Simulation International, SCS (2006-2009).
- Vice President of Membership, The Society for Modeling and Simulation International, SCS (2004-2006).
- Vice President of Conferences, The Society for Modeling and Simulation International, SCS (2002-2004).
- Served on the Technical Program Committee of over 300 International Conferences sponsored by IEEE, ACM, SCS, among many others.
- Served as an external evaluator for the promotion and tenure of faculty members at University of Ottawa, Northern Illinois University, Florida Atlantic University, Amman University, Mu'tah University, Yarmouk University, Zarka Private University, Jordan, Al al-Bait University, Aberdeen University, King Fahd University of petroleum and Minerals, King Abdul-Aziz University, University of Petra, Al-Isra University, Nanyang Technological University (NTU), Mu'atah University, Jordan, University of Akron, Kuwait University, Sultan Qaboos University, Oman, King Saud University, Saudi Arabia, Old Dominion University, VA, USA, University of South Carolina.
- Served as advisor for numerous graduate Students.
- Member of IEEE Computer Society, Communications Society, SMC Society, Instrument and Measurement Society.
- Member of the Publication Board, The Society for Computer Simulation International, 1991-Present.
- Member of the Association for Computing Machinery, ACM.
- Co-founder of the IEEE Computer Society- Kansas City Chapter.
- Chairman, IEEE Computer Society- Kansas City Chapter, 1991- 1992.
- Member of the IEEE Executive Committee- Kansas City Section, 1990-1992
- Chair, IEEE Kansas City Section Educational Activities Committee, 1990-1992.
- Vice Chairman, IEEE Computer Society-Kansas City Chapter, 1990/1991.
- Member of the CUNY Ph.D. Committee in Engineering, 1992-1996.

- Faculty Member of the Biomedical Engineering Program of City College of New York, 1994-1996.
- Serving on the Society for Computer Simulation Committee on High Performance Computing.
- Serving on the Ad Hoc Evaluation Committee to review the Computer Science Telecommunication Program and Center for Advanced Technology at the University of Missouri- Kansas City, 1992.

REVIEWER FOR TRANSACTIONS, JOURNALS AND CONFERENCES:

- I served as a reviewer for numerous scholarly journals, transactions and conferences including these published/organized by IEEE, ACM and SCS as well as highly reputable publishers such as Wiley, Cambridge University Press, Sage, Elsevier, Springer, Inderscience, and others.
- Served as a member of the Source Selection Evaluation Board (SSEB) of the Department of Homeland Security (DHS) on Complex Event Modeling, Simulation and Analysis.
- Reviewed research proposals for Federal agencies and universities worldwide including:
 - NSF Proposals
 - DHS
 - Numerous Universities worldwide

Other Professional Activities

- Served as Ph.D. advisor for many students including Humayun Khalid, Jun Teng, Ahmad Dalal'ah, Chihab Ahmed, Mohamed Hamdi, Chung-Hua Lee, Virginia Gasull.
- Served as External Examiner for Ph.D. Dissertations for students at University of Oslo (Norway), Indian Institute of Technology (India), Columbia University, Rutgers University, Glasgow University (UK), Tampere University of Technology (Finland) 2 times, University of Rouen (France), University of Carthage (Tunisia), Carleton University (Canada). Among these the Ph.D. Dissertations of Frode Nelson, Ayman Abu Hamdieh, C. Bonevista, Mohammed Awwad, Kimmo Pulakka, Kalaf Katatneh, Sudip Misra, Avadora Dumitrescu .
- Served as Advisor for the President of Philadelphia University (He became in April 2005 the Prime Minister of Jordan), Jordan, 2004/2005.
- President, The Society for Modeling and Simulation International, SCS (2009-Present).

- Senior Vice President, The Society for Modeling and Simulation International, SCS (2006-2009).
- Vice President of Membership, The Society for Modeling and Simulation International, SCS (2004-2006).
- Vice President of Conferences, The Society for Modeling and Simulation International, SCS (2002-2004).
- Served as an external evaluator for the promotion and tenure of faculty members at University of Ottawa, Northern Illinois University, Florida Atlantic University, Amman University, Mu'tah University, Yarmouk University, Al al-Bait University, Aberdeen University, King Fahd University of petroleum and Minerals, King Abdul-Aziz University, University of Petra, Al-Isra University, Nanyang Technological University (NTU), University of Akron, Kuwait University, Sultan Qaboos University, University of South Carolina, Oman.
- Served as advisor for numerous graduate Students.
- Member of IEEE Computer Society, Communications Society, SMC Society, Instrument and Measurement Society.
- Member of the Publication Board, The Society for Computer Simulation International, 1991-Present.
- Member of the Association for Computing Machinery, ACM.
- Co-founder of the IEEE Computer Society- Kansas City Chapter.
- Chairman, IEEE Computer Society- Kansas City Chapter, 1991- 1992.
- Member of the IEEE Executive Committee- Kansas City Section, 1990-1992
- Chair, IEEE Kansas City Section Educational Activities Committee, 1990-1992.
- Vice Chairman, IEEE Computer Society-Kansas City Chapter, 1990/1991.
- Member of the CUNY Ph.D. Committee in Engineering, 1992-1996.
- Faculty Member of the Biomedical Engineering Program of City College of New York, 1994-1996.
- Serving on the Society for Computer Simulation Committee on High Performance Computing.

- Serving on the Ad Hoc Evaluation Committee to review the Computer Science Telecommunication Program and Center for Advanced Technology at the University of Missouri- Kansas City, 1992.

RESEARCH AWARDS AND GRANTS:

- Kevin Kennedy Association
- Fulbright
- Nokia
- World Bank/UJRC
- Monmouth University
- NSA
- Mitre/Gemini
- UNESCO: 2 grants
- Tithe Award
- PSC-CUNY 3 grants
- Motorola: 2 grants
- Texas Instruments: 2 grants
- Intel: 2 grants
- TransSoft
- Gerhard Cibis Ltd.
- UMC 2 grants
- MRAA
- ODA/JUST

PSC: Professional Staff Congress

UNESCO: United Nations Education, Science, and Culture Organization

UMC: University of Missouri-Columbia

NSA: National Security Agency

MRAA: Missouri Research Assistant Act

ODA: Overseas Development Agency (UK)

* Joint Principal Investigator

Consulting: Consulted for Several Corporations.

Graduate Students Supervision: Supervised numerous M.S. Theses and produced several **Ph.D. dissertations.** Former graduate students have been hired by universities, and industry worldwide.

ADMINISTRATIVE COMMITTEES: I have served on numerous administrative committees in several universities including:

CS Outcome Assessment Director, Peer Teaching Observer, Monmouth University Cross

Cultural Committee, CSSE Academic Committee, School Personnel Committee, Chair, Faculty Search Committee, University Outcome Assessment Committee, Chair of the CS Departmental Committee on Tenure, Research Committee, Promotion Committee, Departmental Committee on Tenure, Cross Cultural Committee, Chair of the Dept. of Computer Science, Monmouth University, Director, Graduate Studies Committee, Member, Ad Hoc Committee on Engineering Education, Supervising Committee of Information Technology, Faculty Senate Member, CUNY, Laboratories Supervisor, CCNY, Member, Curriculum Committee, CCNY, Planning Committee, CCNY, Ph.D. Qualifying Exam Coordinator, CUNY, Computer Engineering Laboratory Supervisor, CCNY, Member of the Doctoral Committee at the CUNY, Member of the IEEE Admission and Advancement Committee, Member of the Executive Committee of the Kansas City Section of the IEEE, 1990-1992, Chair, IEEE Computer Society- Kansas City Chapter, 1991-1992.

COURSES TAUGHT:

I have taught numerous courses at all levels. Among these:

- Graduate Level:

- Wireless Networks Systems and Security
- Cybersecurity
- Advanced Wireless Networking
- Security of e-Systems and Computer Networks
- Security of Wireless Networks Systems.
- Telecommunications
- Computer Networks
- LANs/MANs
- Computer System Architecture
- Fundamentals of Computer Security and Cryptography
- Wireless Communications and Networks.
- Modeling and Simulation
- Performance Evaluation of Computer Systems
- Parallel Processing
- Microcomputer Architecture, Interfacing and Programming
- Parallel Computer Architecture
- Computer Architecture II
- Advanced Computer Architecture.
- Many Individual Study Courses during the years I have been in Academia.

-Undergraduate Level:

- Introduction to Computer Networks
- Cybersecurity Essentials
- Digital Logic Design
- Digital Logic Laboratory
- Microprocessor Systems

- Microprocessor Lab.
- Advance Microprocessor Laboratory
- Computer Organization
- Computer architecture I.
- Communication Systems.
- Operating Systems
- Computer Networks
- Assembly Language Programming
- Computer Organization

-Industrial Training and Continuing Education Courses

- Security of e-Systems and Computer Networks
- Fundamentals of Wireless Networks Systems
- Fundamentals of Performance Evaluation of Computer and Telecommunication Systems
- Modeling and Simulation of Computer Systems and Networks
- Performance Evaluation of Computer Systems
- Performance Evaluation of Computer and Telecommunication Systems
- High Speed Networking
- Broadband Networks.
- Distributed and Parallel Simulation
- Distributed Interactive Simulation
- Microprocessor Architecture and Programming
- Artificial Neural Networks and Their Applications

RESEARCH AREAS:

- Wireless Networks
- Cyber Security
- Security of e-Systems
- Computer Networks
- Computers Communications and Telecommunications
- Performance Evaluation of Computer Networks and Systems
- Modeling and Simulation
- Biometric-based Security
- Data Analytics
- Parallel Computing: Architecture, and Algorithms.
- Computer Architecture
- High Performance Computers/Computing and Networking.
- Adaptive Learning, Applied Neural Networks and Pattern Recognition
- Digital Watermarking
- Speech Recognition.