# Saleh Al-Sharaeh, Professor

## PERSONAL DETAILS:

**Gender:** *Male*     **Languages:** *English, Arabic.*
**Current  Address:** *P.O. Box 13877 , The University of Jordan, Faculty of  King Abdullah II School of Information Technology,, Computer Science Department, Amman     11942, Jordan.*
Phone:  +962796120333                                    e-mail, salsharaeh@yahoo.com or  ssharaeh@ju.edu.jo
ORCID:0000-0001-7724-1409, Scoupus:22933523000          skypeID:  salsharaeh

**Short** Prof. Saleh Al-Sharaeh received his BS degree in Computer Engineering from Jordan University of Science and Technology in 1989.  In 1992 he received his MS degree from Tennessee State University, USA and in 1996 he received his Ph. D in Computer Engineering from the University of Alabama in Huntsville, USA specializing in Parallel and Distributed Computing and Networking (world challenging problems). Prof. Al-Sharaeh has many years of experience in computer network and Wireless Solutions, and in Parallel Programming with an emphasis on numerical modeling and simulation of heavy computation systems (such as the Space Shuttle and Earth's Space Systems).  Dr. Al-Sharaeh also contributed to the development of the wireless communication industry at Lucent Technologies/Bell Lab, where he worked on software development, testing, and deployment at the R&D Department.  In 2000 he received the Bell Lab Silver Award for his major contribution to the development of Wireless features for PHS development and its deployment to the Chinese market.   He also was a key figure in the foundation of Lucent China in Qingdao.

After leaving Bell Lab, he worked both as a consultant to startup companies such as Aramco, STC, and Aerostar in Florida and held various positions at The University of Alabama, Tuskegee University, and Alabama A&M University, USA.

After joining the University of Jordan, Al-Sharaeh worked along with the Al-Faisal group in developing different programs for teaching training of the Ministry of Education staff in applying various software packages for the betterment of the traditional and eLearning.  In 2009 Prof. Al-Sharaeh was a **co-founder** of two faculties: the Faculty of Information Technology and Systems and the Faculty of Business and Finance in Aqaba, Jordan, where he was appointed as the Founding Dean and an acting executive director.

He recently served as the Dean of King Abdullah the II School of Information Technologies, in which he started bridging academia and industry and armed the students with the necessary skills for the job market needs.

He is also a member of the Quality Assurance Committee for the international accreditation process, under the auspices of the Ministry of Higher Education of Jordan.  He was a Team Leader of ABET accreditation Committee at, the Faculty of Engineering, Tuskegee University.

He has vast experience in Course and Curriculum development, with an emphasis on practical applicability and market orientation of the teaching material.  At the University of Jordan, he was a key figure in developing a PhD program in Computer Science.

He also has experience in fund and grant raising, projects for the NSF (National Science Foundation, USA) along with different projects within the private sector in Jordan (Aqaba Special Zone Authority and Aqaba Development Company) being only two most important examples.  In 2011 he organized and chaired the ICCIT 2011 "The First International Conf on Communications and Information Technologies."

He has more than 80 published research papers/articles in different areas of Wireless Networking, Wireless Sensor Networks, Mobile Computing, Distributed Computing, Machine Learning, Space phenomena Physics, and Protocol Routing Engineering.

## EDUCATION

**Ph. D**. in Computer Engineering, Large Data/Intensive Computation, and Visualization for Space Phenomena Simulation
University of Alabama, Huntsville, Alabama, U.S.A.                    Dec l996
**M. S**. in Electrical Engineering, Neural Networks Based Error Correction and Detection
Tennessee State University, Nashville, Tennessee, U.S.A.,             May l992
**BS**. in Computer Engineering
Jordan University of Science and Technology, Irbid, Jordan            Aug. l989

## RESEARCH AREAS AND INTEREST:

Wireless Sensors Network, Protocols design and Engineering, Mathematical Modeling and Simulation, Digital Communication, Neural Networks and Distributed Systems.

## RECENT PROFESSIONAL WORK EXPERIENCE

**Professor**:Dean, Faculty of King Abdullah II School of **Information Technology**,
Department of **Computer Science**, the University of Jordan, Jordan, **2009**
**Adjunct Associate Professor:** Department of **ECE**, University of Alabama in Huntsville,USA, **2004**.
**Associate Professor:** Department of **Computer Science**, Alabama A&M University,USA, **2004**.
**Assistant Professor:** Faculty of Information Technology, King Fahd University for Petroleum and Minerals, KSA, September, 2002

**Assistant Professor:** Department of Electrical and Computer Engineering, Tuskegee University, USA Jan 1, **1997**.

## RECENT CLASSES TAUGHT

**Research methodologies,** Computer Networks (Graduate Level), Mobile Computing and Advance Wireless Networks and Computer Parallel Architecture, embedded design
Java Internetworking, C#, Advanced C Programming, Operating Systems and Programming ( C and Java), Network Design, Computer Ethics, Innovation and Entrepreneurship, Digital Logic, Signal and Systems, Computer Architectures and Signal and Systems.

## RECENT WORKSHOPS and TRAINING
18/09/2023  DOT Cyber Summit, Amman, Jordan
20-22/08/2023 TAIEX Workshop on Artificial Intelligence? Transitioning from Strategy to Execution
07/27-30/2022 Intelligent Cybersecurity, Cyprus, Turkey
02/15-18//2023  AI Cybersecurity Transformation, Antalya, Turkey
11/21-25/2022  Easy Access  tools training for EDU4ALL,, Athens, GREEC

## SERVICES
### University

1. Dean of Faculty of King Abdullah the II School of Information Technology, University of Jordan
2. Executive Director for Jordan Universities Network, JUNet
3. University Senate Council Member 2019-2020
4. Director for Information Technology Center, ITC, University of Jordan.
5. Dean and Founder of the Faculties of the Jordan University Branch at Aqaba: Faculty of Information Technology and Faculty of Administration and Finance
6. Acting Executive Director for the University of Jordan Aqaba Branch.
7. Dean Assistant for Development Affairs, 2007-2009
8. Team Leader for eASEZA Project, Aqaba Special Economic Zone  Authority, Aqaba, Jordan

9. Member of the PhD Development program, Computer Science, the University of Jordan, Faculty Of Information Technology
10. Developed along with 2 faculty members, MS program at King Fahd University (ABET Accredited)
11. Developed and taught courses in Mobile Computing and Advanced Wireless Sensor Networks.
12. Supervise Many MS and Co-Supervised PhD Students: Protocol Engineering, Cybersecurity, AI
13. Chair for the International Conference on Communication and Information Technology 2011. (iccit-conf.org)
14. Served in Many committees such as: the University of Jordan Strategic Plan Committee, JU Senate Counsel Member, Curriculum Development, PhD Program Development, etc.
15. Certified Quality Insurance Evaluator from the Jordanian Higher Education Accreditation Counsel

## Community

1. External examiners to different National Jordan Universities (Certified Evaluator).
2. Volunteer IT consultant for the Association of Jordanian Women Academics
3. Funded Program teaches teachers
4. eASEZA Project director to Automate Aqaba Special Zone Authority functions
5. Gave several talks to IT teachers in the Middle and Secondary school.

**OTHER RELEVANT WORK EXPERIENCE**

| | |
|---|---|
| 2022-Present | **Dean**, King Abdullah II School of Information Technology, University of Jordan |
| 2017-Present | **Executive Director** for the JUNet, Jordan Universities Network. |
| 2016-2019,03/2022-Aug 2022 | Director for The Information Technology Center at the University of Jordan. |
| 2006-Present | **Professor (2009). at the Department of Computer Science**, the University of Jordan.  Graduate student advisor, Curriculum development teaching classes at both graduate and undergraduate levels such as Wireless Networks, Operating Systems, Computer Architecture. |
| 6/2010-12/2010. | **Team Leader for eASEZA Project**, Aqaba Special Economic Zone Authority, Aqaba, Jordan |
| 2010-2011 | Managed and teach the Diploma Program in IT for educators for the Ministry of Education. |
| 2009-2011 | **Dean and Founder of the Faculty of Information Technology and Systems**, Jordan University/Aqaba, Jordan. **Acting Dean and Founder of the Faculty of Administration and Finance**, Jordan University/Aqaba, Jordan. **Department Chair**: Computer Information Systems, Business Technology, Accounting, Administration and Insurance. **Acting Executive Director** for the University Colleges of Jordan University in Aqaba. |
| 2009-Present | Full Professor, Department of Computer Science, Jordan |
| 2006-2009. | **Associate Professor**, Department of Computer Science, Jordan University, IT College, Jordan. |
| 2007-2009 | **Assistant Dean** for Development Affairs |
| 2004-2006. | **Associate Professor**, Department of Computer Science, Alabama A&M University, USA. |
| 2002-2004 | **Assistant Professor**, Faculty of IT, Computer Engineering Department, King Fahd Univ., Saudi Arabia |
| 1998-2002 | MTS, Research and development of Wireless Solution, Lucent Technologies Inc., USA. |

| 1997-1998 | **Summer Fellowship**, Argonne National Lab two Consecutive Summers, Department of Energy, USA. |
| 1994-1996 | **Teaching Assistant**, Dept. of Electrical and Computer Engineering, University of Alabama in Huntsville, USA. |
| 1991-1992 | **Teaching Assistant**, Dept. of Electrical Engineering, Tennessee State University, USA. |

**Consultation:**

1. AeroStar Environmental Services, Florida, USA.
2. Alabama A&M Research Institute, Normal, Alabama, USA
3. Center of Space Plasma at Huntsville, Huntsville, Alabama, USA
4. National University College for Technology, Jordan
5. Certified Code Moderator/Lucent Technologies Inc. (/Bell Lab)
6. Certified Quality Insurance Evaluator from the Jordanian Higher Education Accreditation Counsel (HEAC.org).

**Journal Editor:**
1. Co-Editor in Chief for the World Applied Sciences Journal (Thompson ISI).
2. Editorial Board, the IJCDS

**Awards and Grants:**

1. Bell Lab Silver Award, 1999
2. Bell Lab Recognition Award for the Development of CAMEL protocol for IN network.
3. Bell Lab's Appreciation for the Development of PHS Solutions for the China Market.
4. Two Summer fellowship awards, Department of Energy, USA 1997 and 1998.
5. Project Team Member of Erasmus+ project: "The Academic Alliance for Reconciliation in the Field of Higher Education in Peace, Conflict Transformation, and Reconciliation Studies in the Middle East and North Africa ( AARMENA)" (2021-2023).

**PhD Thesis**: A massively parallel particle-in-cell technique for a three-dimensional Simulation of plasma phenomena: --a dissertation /--by Saleh Hosni Al-Sharaeh. (1996), the thesis outcomes: A new algorithm and mathematical modeling, data restructuring and mapping a cross-wide board of networks. The proposed algorithm was then applied for 3D simulation space plasma phenomena. Advisor: Professor B. E. Wells, University of Alabama, Huntsville, Alabama, USA.

**Msc Thesis**: Neural Network-Based Error Detection and Correction in Digital Data Transmission Systems, Saleh Hosni Al-Sharaeh, April 1992, advisor: Dr. D. Marpaka, Tennessee State University, USA.

**PUBLICATIONS**

1. Al Hwaitat, A.K., Fakhouri, H.N., Alawida, M., Atoum, M.S., Abu-Salih, B., Salah, I.K.M., Al-Sharaeh, S., Alassaf, N. (2024). Overview of Mobile Attack Detection and Prevention Techniques Using Machine Learning. International Journal of Interactive Mobile Technologies (iJIM), 18(10), pp. 125–157. https:// doi.org/10.3991/ijim.v18i10.46485

2. LAMA SADI AWAD, ENAS TAWFIQ NAFFAR, SALEH AL-SHARAEH (2024), ", ENHANCING MIGRAINE DIAGNOSIS: A SYMPTOM-BASED CLASSIFICATION APPROACH WITH SVM AND DECISION TREE", In The Seybold Report (Vol. 19, Number 02, pp. 870–887). Zenodo. https://doi.org/10.5281/zenodo.10730830 ,

3. NOUR MOWAFAK JUMA, AL- HANOUF AL-KHAWALDEH, & SALEH SHARAEH. (2024). BANKING ON THE QUANTUM REVOLUTION – A COMPREHENSIVE ANALYSIS. In The

Seybold Report (Vol. 19, Number 02, pp. 950–962). Zenodo. https://doi.org/10.5281/zenodo.10785173

4. M. Abujazoh, D. Al-Darras, N. A. Hamad and S. Al-Sharaeh, "Feature Selection for High-Dimensional Imbalanced Malware Data Using Filter and Wrapper Selection Methods," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 196-201, doi: 10.1109/ICIT58056.2023.10226049

5. Bilal Abu-Salih; Mohammed Alweshah; Moutaz Alazab; Manaf Al-Okaily; Muteeb Alahmari; Mohammad Al-Habashneh; Saleh Al-Sharaeh. Natural language inference model for customer advocacy detection in online customer engagement. *Machine Learning* **2023**, 1 -27.

6. Abu-Zayed, Abeer Abdel-Jabbar, Alshraideh, Mohammad, Iyad Muhsen AlDajani, and Saleh Al-Sharaeh. 2022. "Netnography Internet Research Methodology into the Internet of Toys." In: Reconciliation, Heritage and Social Inclusion in the Middle East and North Africa, edited by Iyad Muhsen AlDajani, and Martin Leiner, 87-98. Springer, Cham. https://doi.org/10.1007/978-3-031-08713-4_6.

7. H Harahsheh, M Alshraideh, S Al-Sharaeh Rizik Alsayed,, Improving Classification Performance for Malware Detection Using Genetic Programming Feature Selection Techniques, Journal of Applied security research, https://doi.org/10.1080/19361610.2022.2067459 , May 2022 - Taylor & Francis

8. Heba Harahsheh, Mohammad Shraideh, Saleh Sharaeh, PERFORMANCE OF MALWARE DETECTION CLASSIFIER USING GENETIC PROGRAMMING IN FEATURE SELECTION, Informtica Vol 45, No 4 (2021)

9. Abu-Zayed, Abeer Abdel-Jabbar, Alshraideh, Mohammad, Iyad Muhsen AlDajani, and Saleh Al-Sharaeh. 2022. "Netnography Internet Research Methodology into the Internet of Toys." In: Reconciliation, Heritage and Social Inclusion in the Middle East and North Africa, edited by Iyad Muhsen AlDajani, and Martin Leiner, 87-98. Springer, Cham. https://doi.org/10.1007/978-3-031-08713-4_6.

10. *Saleh Al-Sharaeh, Nancy Shaar, Lara Shboul,* A Classical Machine Learning Model Scheduling in Industrial Wireless Sensor Networks, Journal of Hunan University Natural Science, Vol 49, No 1 (2022)

11. : Shboul, L.; Fram, K.; Sharaeh, S.; Alshraideh, M.; Shaar, N.; Alshraideh, N. Male and Female Hormone Reading to Predict Pregnancy Percentage Using a Deep Learning Technique: A Real Case Study. AI 2022, 3, 53. https://doi.org/10.3390/ai3040053

12. Mai Abujazoh, Duha Daras, Nesreenn A Hamad, Saleh Al-Sharaeh,Feature Selection for High-Dimensional Imbalanced Malware Data Using Filter and Wrapper Selection Methods, 2023 International Conference on Information Technology (ICIT), Jan 2003, Amman, Jordan.

13. Rama Khaled Al-Sheikh, Mohammad Alshraideh, Saleh Al-Sharaeh,Variable-Slot Split Scheduling Algorithm Technique for Real-Time Industrial Wireless Sensor Networks, Journal of Hunan University（Natural Sciences, Vol. 48 No. 11 November 2021.

14. Bayan Alfayoumi, Mohammad Alshraideh, Saleh Al-Sharaeh, Prof. Dr. Martin Leiner , Dr. Iyad Muhsen AlDajani, Analyzing the Sentiments of Jordanian Students Towards Online Education in the Higher Education Institutions, International Journal of Advanced Computer Science and Applications, Vol. 12, No. 11, 2021

15. Moshref, M., Al-Sayyed, R., & Al-Sharaeh, S. (2022). Improving the quality of service in wireless sensor networks using an enhanced routing genetic protocol for four objectives. Indonesian Journal of Electrical Engineering and Computer Science, 26(2), 1182–1196. https://doi.org/10.11591/ijeecs.v26.i2.pp1182-1196

16. M. Moshref, R. Al-Sayyed and S. Al-Sharaeh, "An Enhanced Multi-objective Nondominated Sorting Genetic Routing Algorithm for Improving the QoS in Wireless Sensor Networks," in IEEE Access,Vol. 9, pp. 149176-149195,2021

17. Mahmoud Moshref, Rizk M.H. Alsayyed, Saleh Al-Sharaeh,"MULTI-OBJECTIVE OPTIMIZATION ALGORITHMS FOR WIRELESS SENSOR NETWORKS: A COMPREHENSIVE SURVEY, Journal of Theoretical and Applied Information Technology 98(14), July 2020.

18. T. T. Krishan, R. S. Alkhawaldeh, I. Al-Hadid, R. Al Azawi and S. H. Al-Sharaeh, "An impact of smart traffic sensing on strategic planning for sustainable smart cities," In Sustainable Development and Social Responsibility, vol. 2, pp. 25-31, 2020. DOI: https://doi.org/10.1007/978-3-030-32902-0_4

19. A Data Estimation for Failing Nodes Using Fuzzy Logic with Integrated Microcontroller in Wireless Sensor Networks, Saad Al-Azzam, Ahmad Sharieh, & Saleh Al-Sharaeh, International Journal of Electrical & Computer Engineering (2088-8708), Vol. 10 Issue4 Part 1, p3623-3634, Aug. 2020.

20. Performance Comparison of LEACH and LEACH-C Protocols in Wireless Sensor Networks, Ala'a Al-Shaikh, Hebatallah Khattab, Saleh Al-Sharaeh, J. ICT Res. Appl. Vol. 12, No. 3, 2018, 219-236.

21. Travelling Salesman Problem Solution Based-on Grey Wolf Algorithm over Hypercube Interconnection Network. Shaheen, Ameen, Sleit, Azzam, Al-Sharaeh, Saleh. Modern Applied Science. Vol 12 No 8, p.142-159 (2018).

22. Chemical Reaction Optimization for Traveling Salesman Problem Over a Hypercube Interconnection Network. Shaheen, Ameen & Sleit, Azzam & Al-Sharaeh, Saleh. CSOC2018: Cybernetics and Algorithms in Intelligent Systems, p. 432-442 (2018).

23. An improved chemical reaction optimization algorithm for solving traveling salesman problem. Shaheen, Ameen, Azzam Sleit and Saleh Al-Sharaeh" *2018 9th International Conference on Information and Communication Systems (ICICS)* (2018): 37-42.

24. A Hybrid Methodology for Automation the Diagnosis of Leukemia Based on Quantitative and Morphological Feature Analysis, Hussam Fakhouri, Saleh Al-Sharaeh, Modern Applied Science, 12(3) p.56-73, 2018

25. Enhanced AODV Protocol for Detection and Prevention of Blackhole Attack in Mobile Ad Hoc Network, Sherin Hijazi, Mahmoud Moshref, Saleh Al-Sharaeh, International Journal of Computers & Technology, Vol. 16 No(1),p7535-7547 (2017).

26. Bandwidth Provisioning Scheme for 3D Wireless Sensor Networks. M. A. Mizher, S. H. Al-Sharaeh, R. Sulaiman, M. A. Mizher, , Journal of Theoretical & Applied Information Technology 75 (1), 2015.

27. Centroid Dynamic Sink Location for Clustered Wireless Mobile Sensor Networks, M. A. Mizher, S. H. Al-Sharaeh,, Meic Ang, A. M. Abdalla, M. A. Mizher, Journal of Theoretical & Applied Information Technology 73 (3), 2015

28. A robotic intelligent wheelchair system based on obstacle avoidance and navigation functions Alshraideh, Mohammed; Mahafzah, Basel A; Al-Sharaeh, Saleh; Hawamdeh, Ziad M; , Journal of Experimental & Theoretical Artificial Intelligence, , ahead-of-print, 42016, Taylor & Francis, 2014

29. Three-Dimensional Dynamic Based Borrowing Scheme for Wireless Cellular Networks Salah, Imad; AlShrideh, Mohammed; Al-Sharaeh, Saleh; Saadeh, Heba; Naser, Alia; , , , , , Scientific Research Publishing, 2013

30. An Efficient Priority Based Routing Technique That Maximizes the Lifetime and Coverage of Wireless Sensor Networks Salah, Imad; Alshriedeh, Mohmmad A; Al-Sharaeh, Saleh; , Int'l J. of Communications, Network and System Sciences, 6, 2, 100, Scientific Research Publishing, 2013

31. Hetrogeneous Multi-Deployment Strategy Effect on Maximizing the Lifetime Routing in Wireless Sensor Network Osman, Fatima M; Al-Sharaeh, Saleh H; , Middle-East Journal of Scientific Research, 13, 6, 749-759, , 2013

32. Receiver-based AODV routing protocol for MANETs Al-Nahari, Abdulaziz; Mohamad, Mohd Murtadha; Al-Sharaeh, Saleh; , Intelligent Systems Design and Applications (ISDA), 2013 13th International Conference on, , , 126-130, IEEE, 2013

33. An efficient routing technique that maximizes the lifetime and coverage of wireless sensor networks Al-Sharaeh, Saleh; Hasan, Reema; Salah, Imad; , Digital Information and Communication Technology and it's Applications (DICTAP), 2012 Second International Conference on, , , 13-18, IEEE, 2012

34. Deployment Strategy Effect on Maximizing the Lifetime of Wireless Sensor Networks S. Al-Sharaeh, R. Hasan, I. Salah; , 2012 Second International Conference on Digital Information and Communication Technology and it's Applications (DICTAP),, , , 13-18, IEEE, 2012

35. A multiple-population genetic algorithm for branch coverage test data generation Alshraideh, Mohammad; Mahafzah, Basel A; Al-Sharaeh, Saleh; , Software Quality Journal, 19, 3, 489-513, Springer, 2011

36. An Efficient Generalized Multi-Fault Tolerant Mapping Algorithm onto a 3-D Torus Interconnection Topology Fetyani, Aymcm; Al-Sharaeh, Saleh; , World Applied Sciences Journal, 12, 1, 106-113, , 2011

37. Investigating cache technique for location of dependent information services in mobile environments Hiary, Hazem; Mishael, Qadri; Al-Sharaeh, Saleh; , European Journal of Scientific Research, 38, 2, 172-179, , 2009

38. Deployment Strategy Effect on Maximizing the Lifetime of Wireless Sensor Networks Saleh H. Al-Sharaeh, Ahmad A. Sharieh, Rana K.Abu Elayyan; , the 24th International Conference on Computers and Their Applications (CATA-2009), , , 122-127, ISCA Society, 2009

39. Multi-Dimensional Poisson Distribution Heuristic for Maximum Lifetime Routing in Wireless Sensor Network Al-Sharaeh, Saleh H; Sharieh, Ahmad; Dalhoum, A Abu; Hosny, Reema; Mohammed, Fatima; , World Applied Sciences Journal, 5, 2, 119-131, , 2008

40. Random graph generation based p-method and box method for the evaluation of power-aware routing protocols of ad hoc networks Sharaeh, Saleh HA; , American Journal of Applied Sciences, 5, 12, 1662, , 2008

41. Remotely controlled intelligent vehicle to handle public places security Abdel Latif Abu Dalhoum, Mohammed Al-Rawi, Ahmed, Saleh Al-Sharaeh; , Journal WSEAS TRANSACTIONS on SYSTEMS, 7, 10, 1058-1069, ACM DL, 2008

42. A Generalized Efficient Multi-Fault Tolerant Mapping Algorithm onto a 3-D Tours Interconnection Topology, Al-Sharaeh, Saleh H.; , European Journal of Scientific Research, 21, 229-238, 1450, European Journal of Scientific Research, 2008

43. Efficient Method for Assigning Students to Proper Groups", Moh'd Belal Al- Zoubi, Imad Salah, Azzam Sleit, Ammar Huneiti and Nadim Obeed; , European Journal of Scientific Research, 21, 2, 249-258, European Journal of Scientific Research, 2008

44. On the Hamiltonian cycle mapping onto 3-D torus interconnection network based on base-b reflected gray codes Al-Sharaeh, Saleh H; , Applied mathematics and computation, 186, 2, 1311-1321, Elsevier, 2007

45. Efficient mapping scheme of ring topology onto tree-hypercubes Almobaideen, Wesam; Qatawneh, Mohammad; Sleit, Azzam; Salah, Imad; Al-Sharaeh, Saleh; , Applied Sci, 7, , 2666-2670, , 2007

46. Dynamic rate-based borrowing scheme for QoS provisioning in high speed multimedia wireless cellular networks Al-Sharaeh, Saleh H; , Applied mathematics and computation, 179, 2, 714-724, Elsevier, 2006

47. Performance of Infrastructure Mode Wireless LAN Access Network Based on OPNETTM Simulator Bawazir, Saeed A; Al-Sharaeh, Saleh H; , Department of Computer Science, Normal, AL, 35762, , , , 2006

48. Case Study: Mobile IP a Mobility Management Protocol Muhammed R. Sami, Saleh Al-Sharaeh; , The 2005 International conference on wireless networks, , , 166-170, , 2005

49. Efficient Fault Tolerant Mapping of Large Three-Dimensional Simulation onto 3D Tori Graph Al-Sharaeh, Saleh H; , Editorial Advisory Board e, 21, 2, 239-248, , 2005

50. Efficient Method for Assigning Students to Proper Groups Salah, Imad; Sleit, Azzam; Al-Sharaeh, Saleh; Huneiti, Ammar; Obeed, Nadim; , Editorial Advisory Board e, 21, 2, 249-358, , 2005

51. QoS Provisioning in Wireless Cellular Networks for Multimedia Applications Saleh Al-Sharaeh, and Isa Y. Garba; , Proceedings of the 17th International Conference on Computer Applications in Industry and Engineering, CAIN 2004, , , 21-24, ISCA Society, 2004

52. Interactive 3D Visualization For A Scalable Three-Dimensional Domain Decomposition Mapping Technique Using MPI Al-Sharaeh, Saleh H., J. Montegomery, , The 6th International Conference on Computer Applications in Industry and Engineering (CAINE03), , , 189-192, ISCA Society, 2003

53. A Scalable Three-Dimensional Domain Decomposition Mapping Technique Using MPI Al-Sharaeh, Saleh H.; , The 18th International Conference on Computers and Their Applications (CATA-2003), , , 369-372, ISCA Society, 2003

54. Three-dimensional kinetic simulation of the nonlinear evolution of lower hybrid pump waves Singh, Nagendra; Wells, B Earl; Abdelrazek, A; Al-Sharaeh, S; Leung, WC; , Journal of Geophysical Research: Space Physics (1978–2012), 103, A5, 9333-9349, , 1998

55. Three-Dimensional Plasma Phenomena Simulation on a Cray T3D MPP System Elsadek, A Abdelrazek; Al-Sharaeh, Saleh; Wells, B Earl; Singh, Nagendra; , , , , , , , 1998

56. Nonlinear Evaluation of Lower Hybrid Pump Waves Nagendra Singh, B. Earl Wells, A. Abdelrazek, S, and W. C. Lung; , Journal of Geophysical Research, 103, A5, 9333-9349, Wiley, 1998

57. Parallel Implementations of a Three-Dimensional PIC code Plasma Simulation A. Abdelmageed Elsadek, Saleh Al-Sharaeh, Safwat, and B. Earl Wells; , 11th International Conference on Parallel and Distributed Computing Systems, , , , ISCA Society, 1998

58. Massively parallel 3-dimensional particle-in-cell plasma code Wells, EE; Al-Sharaeh, S; Singh, N; , Plasma Science, 1997. IEEE Conference Record-Abstracts., 1997 IEEE International Conference on, , , 187, IEEE, 1997

59. Three-dimensional numerical simulation of ion and electron accelerations by parametric decay of fast lower hybrid waves Singh, N; Al-Sharaeh, S; Abdelrazek, A; Leung, WC; Wells, BE; , Plasma Science, 1997. IEEE Conference Record-Abstracts., 1997 IEEE International Conference on, , , 264, IEEE, 1997

60. An Embedding Technique for a Three-Dimensional Simulation of Large-Volume Space Plasma S. Hosni Al-Sharaeh, B. Earl Wells, and Nagendra Singh; , Journal of Mathematical Modeling and Scientific Computing, 8, , , Journal of Mathematical Modeling and Scientific Co, 1997

61. Parallel Three Dimensional Particle-In-Cell Code Simulation on a Cluster of Heterogenouse A. Abdelmageed Elsadek, Saleh Alsharaeh, B. Earl, and Nagendra Singh; , International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA' 97),, , , 701-707, PDPTA, 1997

62. A Massively Parallel Particle-In-Cell Technique for Three-Dimensional Simulation of Plasma Phenomena S. Hosni Al-Sharaeh, B. Earl Wells, Nagendra Singh; , the 9th International Conference on Parallel and Distributed Computing Systems (PDCS96), , , , ISCA Society, 1997

63. A comparison of heuristics for list schedules using the Box-method and P-method for random digraph generation Al-Sharaeh, Saleh; Wells, B Earl; , System Theory, 1996., Proceedings of the Twenty-Eighth Southeastern Symposium on, , , 467-471, IEEE, 1996

64. Three-dimensional numerical simulation of ion and electron accelerations by parametric decay of fast lower hybrid waves Singh, Nagendra; Al-Sharaeh, S; Abdelrazek, A; Leung, WC; Wells, B Earl; , Geophysical research letters, 23, 24, 3663-3666, Wiley Online Library, 1996

65. A massively parallel particle-in-cell technique for a three-dimensional simulation of plasma phenomena Al-Sharaeh, Saleh Hosni; , , , , , , The University of Alabama in Huntsville, 1996

66. A massively parallel particle in cell technique for a three dimensional simulation of plasma phenomena: a dissertation Al-Sharaeh, Saleh Hosni; , , , , , , University of Alabama in Huntsville, 1996

67. A Three-Dimensional Plasma Phenomena Simulation on a Cluster of Heterogeneous Workstations Using PVM S. Hosni Al-Sharaeh, A. Elsadek, B. Wells, Nagendra Singh; , ISCA International Conference on Computer Applications in Industry and Engineering,(CAINE-96), , , , ISCA Society, 1996

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69. Stability Prediction of Nonlinear System Using Multilayer Feed Forward Artificial Neural Network Al-Sharaeh, Saleh; , IEEE SSST92, , , , IEEE, 1992

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71. Artificial Neural Network -Based Error Detection and Correction in Digital Data Transmission Systems S. Al-Sharaeh, D. R. Marpaka, M. Bodruzzaman; , Proceedings of the 1991 International Conference on Intelligent Teleoperation, , , 165-173, UB/TIB Hanover, 1991

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## REFERENCES
Available upon request