

## 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.

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**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 University of Alabama in Huntsville, USA specializing in Parallel and Distributed Computing and Networking. Prof. Al-Sharaeh has many years of experience in computer network and Wireless Solution, and in Parallel Programming with emphasis on numerical modeling and simulation of heavy computation systems (such as Space Shuttle and Earth's Space Systems). Dr. Al-Sharaeh also contributed in 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 labs Silver Award for his major contribution to the development of Wireless features for PHS development and its deployment to China 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: 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 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, Faculty of Engineering, Tuskegee University.

He has a 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 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 65 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

<b>Ph. D.</b>	in Computer Engineering, Computer Networks and Distributed Systems University of Alabama, Huntsville, Alabama, U.S.A.	Dec 1996
<b>M. S.</b>	in Electrical Engineering, Neural Networks Tennessee State University, Nashville, Tennessee, U.S.A.,	May 1992
<b>BS.</b>	in Computer Engineering Jordan University of Science and Technology, Irbid, Jordan	Aug. 1989

## 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** :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

Computer Networks (Graduate Level), Mobile Computing and Advance Wireless Network. 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.

## 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.
13. Chair for the International Conference on Communication and Information Technology 2011. (iccit-conf.org)

14. Served in Many committees such as: 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 teach 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	<b>Dean</b> , King Abdullah II School of Information Technology, University of Jordan
2017-Present	<b>Executive Director</b> for the JUNet, Jordan universities Network.
2016-2019,2022-Aug 2022	Director for The Information Technology Center at the University of Jordan.
2006-Present	
2009-Present	<b>Professor. at the Department of Computer Science</b> , the University of Jordan. Graduate Students Advisor, Curriculum development teaching classes at both graduate and undergraduate level such as Wireless Networks, Operating Systems, Computer Architecture.
6/2010-12/2010.	<b>Team Leader for eASEZA Project</b> , Aqaba Special Economic Zone Authority, Aqaba, Jordan
2010-2011	Manage and teach the Diploma Program in IT for educators for the Ministry of Education.
2009-2011	<b>Dean and Founder for the Faculty of Information Technology and Systems</b> , Jordan University/Aqaba, Jordan. <b>Acting Dean and Founder for the Faculty of Administration and Finance</b> , Jordan University/Aqaba, Jordan. <b>Department Chair:</b> Computer Information Systems, Business Technology, Accounting, Administration and Insurance. <b>Acting Executive Director</b> for the University Colleges of Jordan University in Aqaba.
2009-Present	Full Professor, Department of Computer Science, Jordan
2006-2009.	<b>Associate Professor</b> , Department of Computer Science, Jordan University, IT College, Jordan.
2007-2009	<b>Assistant Dean</b> for Development Affairs
2004-2006.	<b>Associate Professor</b> , Department of Computer Science, Alabama A&M University, USA.
2002-2004	<b>Assistant Professor</b> , 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	<b>Summer Fellowship</b> , Argonne National Lab two Consecutive Summers, Department of Energy, USA.
1994-1996	<b>Teaching Assistant</b> , Dept. of Electrical and Computer Engineering, University of Alabama in Huntsville, USA.
1991-1992	<b>Teaching Assistant</b> , 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 Appreciation for the Development of PHS Solution for the China Market.
4. Two Summer fellowship award, 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 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. Abu-Zayed, A.AJ., Alshraideh, M., AlDajani, I.M., Al-Sharaeh, S.” Netnography Internet Research Methodology into the Internet of Toys”, Reconciliation, Heritage and Social Inclusion in the Middle East and North Africa. Springer, Cham. [https://doi.org/10.1007/978-3-031-08713-4\\_6](https://doi.org/10.1007/978-3-031-08713-4_6) (2022).
2. 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
3. Abeer Abdel-Jabbar Abu-Zayed, Dr. Iyad Muhsen AlDajanic, Prof. Dr. Mohammad Alshraideh, Prof. Dr. Saleh Al-Sharaeh, Netnography Internet Research methodology Applications: A Survey, AARMENA book series, and in Springer Nature journal, peer-reviewed by the AARMENA Scientific board at Friedrich Schiller University, and the Springer Nature editors for publication. Feb 21,2022.
4. *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)
5. 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.

6. 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
7. 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
8. 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.
9. Krishan T.T., Alkhalwaldeh R.S., Al-Hadid I., Azawi R.A., Al-Sharaeh S.H. (2020) An Impact of Smart Traffic Sensing on Strategic Planning for Sustainable Smart Cities. In: Al-Masri A., Al-Assaf Y. (eds) *Sustainable Development and Social Responsibility—Volume 2. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development)*. Springer, Cham, (2020).
10. 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.
11. 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.
12. 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).
13. 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).
14. 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.
15. 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
16. 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).
17. 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.
18. 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

19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. Deployment Strategy Effect on Maximizing the Lifetime of Wireless Sensor Networks S. Al-Sharaeh, R. Hasan, I. Salah; , 2012 Second International Conference on on Digital Information and Communication Technology and it's Applications (DICTAP),, , , 13-18, IEEE, 2012
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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

32. 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
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. Case Study: Mobile IP a Mobility Management Protocol Muhammed R. Sami, Saleh Al-Sharaeh; , The 2005 International conference on wireless networks, , , 166-170, , 2005
40. 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
41. 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
42. 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
43. Interactive 3D Visualization For A Scalable Three-Dimensional Domain Decomposition Mapping Technique Using MPI Al-Sharaeh, Saleh H.; , The 6th International Conference on Computer Applications in Industry and Engineering (CAINE03), , , 189-192, ISCA Society, 2003
44. 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
45. 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
46. Three-Dimensional Plasma Phenomena Simulation on a Cray T3D MPP System Elsadek, A Abdelrazek; Al-Sharaeh, Saleh; Wells, B Earl; Singh, Nagendra; , , , , , 1998

47. 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
48. 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
49. 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
50. 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
51. 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
52. Parallel Three Dimensional Particle-In-Cell Code Simulation on a Cluster of Heterogeneous 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
53. 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
54. 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
55. 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
56. 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
57. 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
58. 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
59. A three-dimensional plasma phenomena simulation on a cluster of heterogeneous workstations using PVM Al-Sharaeh, S Hosni; ElSadek, A; Wells, B Earl; Singh, Nagendra; Leung, W; , Computer applications in industry and engineering, , , , 1996
60. Stability Prediction of Nonlinear System Using Multilayer Feed Forward Artificial Neural Network Al-Sharaeh, Saleh; , IEEE SSST92, , , IEEE, 1992



61. Artificial Neural Networks and their Application to Power Industries D. R. Marpaka, S.S. Dogan, M. Bodruzaman, Suresh, S Al-Sharaeh.; , 1992 IEEE Southeastcon, , , 354-358, IEEE, 1992
62. 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
63. An Embedding Technique for a Three-Dimensional Simulation of Large-Volume Space Plasma S. Hosni Al-Sharaeh, B. Earl Wells, and Nagendra Singh; , , , , ,

## REFERENCES

Available upon request