

# ***Sultan Aljhdali, Ph.D.***

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College of Computers and Information Technology  
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## **Education**

**George Mason University, Fairfax, Virginia, USA [2003]**  
**Ph.D. Information Technology, Emphasis in Computer Science**  
Dissertation titled "Prediction of Software Reliability Using Neural Network and Fuzzy Logic"

**Minnesota State University, Mankato, Minnesota, USA [1996]**  
**M.S. Computer Science**

**Winona State University, Winona, Minnesota, USA [1992]**  
**B.S. Computer Science**

**Harvard Graduate School of Business School, Cambridge, USA**  
**Harvard University, Continuing Education, [April 1, 2013]**  
**Leadership Program**

## **Board Members**

- 1) Board of Trustee - Al-Qassim Colleges, Al-Qassim, Saudi Arabia
- 2) Board of Trustee - Buraydah Colleges, Al-Qassim, Saudi Arabia
- 3) Board of Performance Evaluation (Ministry of Education, Saudi Arabia)  
Arab East Colleges, Riyadh, Saudi Arabia

## **Academic Positions**

**Visiting Professor**, Department of Computer Science and Engineering, University of Hawai'i at Hilo, Hilo, Hawaii USA. [Sept 2019- May 2020]

**Professor of Computer Science**, College of Computers and Information Technology, Professor, Taif University, Taif, Saudi Arabia [Jan 2014 – Present]

**Visiting Professor**, Department of Computer Science, College of Science and Engineering  
Winona State University, Winona, Minnesota, U.S.A. [Aug 2013 – May 2014]

**Visiting Professor**, Department of Computer Science & Information Technology  
College of Science and Engineering, St. Cloud State University, St. Cloud, MN, U.S.A.  
[June 2013- August 2013]

**Associate Professor**, College of Computers and Information Technology, Taif University,  
Taif, Saudi Arabia [Apr 2010-Jan 2014]

**Assistant Professor**, College of Computers and Information Technology, Taif University,  
Taif, Saudi Arabia [Sep 2007-April 2010]

## **Administrative Leadership Positions**

***Director, Taif External Joint Supervision Program (TEJSP),  
Taif University, Saudi Arab, [Sep 2014-Sep 2016]***

The mission of this program is to support female lecturers with travel restrictions to pursue terminal degrees from reputable international universities. **TEJSP** is administered through distance learning via a joint Ph.D. program between TU and several international universities.

***Dean, College of Computers and Information Technology,  
Taif University, Saudi Arab, [Feb 2009-June 2013]***

During the first phase of my deanship, I shepherded the design and implementation of a college wide self-study for the purpose of raising the visibility of the CCIT programs, both nationally and internationally. The study which incorporated hybrid analysis tools to examined strengths, weaknesses, opportunities and threats found in CCIT, revealed the need to take a proactive approach in the areas of Faculty Recruitment; Infrastructure Development; Programs and Curriculum Development that is compliant with international requirements, Faculty Development to support Research Funding; Assessment and Program Accreditation strategy that is sustainable and can answer to accreditation bodies such as ABET or Accreditation Board of Engineering and Technology, and Shared Data Governance that can guarantee best practices. The second phase of my deanship was spent implementing these aforementioned areas. In what follows I shall describe the major milestones in the implementation of these areas.

### ***ABET Accreditation Supervisor***

Accreditation of programs by international boards is most rewarding for all stakeholders including students and faculty, tenured and otherwise. As such, I made it clear to my staff that we must get accreditation by ABET within a span of 3 to 4 years. Indeed, both the B. Sc. program in Computer Science and the B. Sc. program in Computer Engineering were reviewed for accreditation during the 2012-13 cycle and received official accreditation in October 2013 valid for 6 years (until 2019.) One program that is yet to apply for ABET accreditation is the B. Sc. program in Information Technology. The department of IT has been established to respond to the needs of the growing IT sector in the Kingdom. The department started under the name "Information Systems" and was subsequently shifted to focus on information technology (or IT). That change was implemented to suit the institution's mission and goals. The IT program aims to prepare professionals in different

subfields of IT and responds to the demands of the job market for specialists in database, networks, information security, and systems.

## Scientific Research

### **Grants:**

**King Abdul Aziz City of Science & Technology (KACST), [June 2013- August 2013]**  
And St. Cloud University, Minnesota, USA,  
“Development of an evolutionary software effort estimation model: A Generic Programming Approach”.

### **Patent Granted from U.S. Patent and Trademark Office – USA:**

**“Method for coding images with shape and detail information”,** Patent number **US8750618 B2**, June 10, 2014

A method for coding image data together with its shape and other details as a two dimensional barcode is disclosed. The method stores the shape details together with the color information of a product which is very useful for representing to a user. The method enables the encoding of an image with its shape, size, name and other details of the product in a most compact way. Also, the method enables decoding of the information to get the detailed information without using internet.

### **Editorial Boards:**

1. Journal of King Saud University - Computer and Information Sciences.
2. Fuzzy Systems within the journal Frontiers in Artificial Intelligence
3. Journal of Computations and Modeling
4. International Journal on Advances in Internet Technology

### **Books:**

1. Innovation in Information Systems and Technologies to Support Learning Research (December 1, 2019) ISBN-13: 978-3030367770
2. E-Business and Security, Publisher: LAP LAMBERT Academic Publishing (July 24, 2013) ISBN: 978-3659427435
3. Intelligent Approaches to Data Management, Publisher: LAP LAMBERT Academic Publishing (February 08, 2013) ISBN: 978-3659342639
4. Advanced Techniques for Image Segmentation, Publisher: LAP LAMBERT Academic Publishing (January 11, 2013) ISBN: 978-3659322617
5. Prediction of Software Reliability Using Neural Network & Fuzzy Logic: Using Neural Network and Fuzzy Logic Techniques for Predicting Software Reliability”, Publisher: VDM Verlag Dr. Müller (June 10, 2011) ISBN: 978-3639363593
6. Foundation of Computers and Information Technology, Taif University, Saudi Arabia Multi Media, Taif University, Saudi Arabia

## ***Journal Publications:***

1. **S. Aljahdali**. "Sentiment analysis with tweets behaviour in twitter streaming api", *Computer Systems Science and Engineering*, Volume 45, Issue 2, pp. 1113-1128, 2023. (with Kuldeep Chouhan, Mukesh Yadav, Ranjeet Kumar Rout, Kshira Sagar Sahoo, N Jhanjhi, Mehedi Masud).
2. **S. Aljahdali**. "Machine Learning and Artificial Neural Network for Predicting Heart Failure Risk", Volume 44, Issue 1, pp. 757-775, *Computer Systems Science and Engineering*, 2023. (with Polin Rahman, Ahmed Rifat, MD IftehadAmjad Chy, Mohammad Monirujjaman Khan, Mehedi Masud).
3. **S. Aljahdali**. "4D: A Real-Time Driver Drowsiness Detector Using Deep Learning", *Electronics*, Volume 12, no. 1: 235. 2023. (with Jahan, Israt, K. M. Aslam Uddin, Saydul Akbar Murad, M. Saef Ullah Miah, Tanvir Zaman Khan, Mehedi Masud, and Anupam Kumar Bairagi)
4. **S. Aljahdali**, "Intelligent conventional and proposed hybrid 5G detection techniques", *Alexandria Engineering Journal*, Volume 61, Issues 12, pp. 10485–10494, December 2022. (with Arun Kumar , Sumit Chakravarty , S. Suganya , Himanshu Sharma , Rajneesh Pareek , Mehedi Masud)
5. **S. Aljahdali**, "Protocol-Specific and Sensor Network Inherited Attack Detection in IoT Using Machine Learning", *Journal Applied Sciences (MDPI)*, Volume 12, Issues 22, pp. 1–28, November 2022. (with F. Zahra, N. Z. Jhanjhi, N. A. Khan, Sarfraz Nawaz Brohi , Mehedi Masud)
6. **S. Aljahdali**, "Protocol-Specific and Sensor Network-Inherited Attack Detection in IoT Using Machine Learning", *Applied Sciences (MDPI)*, Volume 12, Issues 22, pp. 1–28, November 2022. (with F. Zahra , N. Z. Jhanjhi , N. A. Khan , Sarfraz Nawaz Brohi , Mehedi Masud)
7. **S. Aljahdali**, "Machine-Learning-Based Approach for Virtual Machine Allocation and Migration", *Electronics (MDPI)*, Volume 11, Issues 19, pp. 1–11, October 2022. (with Suruchi Talwani , Jimmy Singla , Gauri Mathur , Navneet Malik , N. Z. Jhanjhi , Mehedi Masud)
8. **S. Aljahdali**, "Robust sliding-Backstepping mode control of a wind system based on the DFIG generator", *Scientific Reports*, pp. 1-16, July 2022. (with Farah Echiheb, Yasmine Ihedrane, Badre Bossoufi, Manale Bouderbala, Saad Motahhir, Mehedi Masud, Madiha ElGhamrasni)
9. **S. Aljahdali**, "Machine Learning and Artificial Neural Network for Predicting Heart Failure Risk", *Computer Systems Science & Engineering*, Volume 44, Issues 1, pp. 757-775, June 2022. (with Polin Rahman, Ahmed Rifat, MD. Iftehad Amjad Chy, Mohammad Monirujjaman Khan, Mehedi Masud)
10. **S. Aljahdali**, "Explainable AI in Diagnosing and Anticipating Leukemia Using Transfer Learning Method", *Computational Intelligence and Neuroscience*, Volume 2022, pp. 1-14, April 2022. (with Wahidul Hasan Abir ,Md. Fahim Uddin , Faria Rahman Khanam ,Tahia Tazin, Mohammad Monirujjaman Khan ,Mehedi Masud)
11. **S. Aljahdali**, "MRMR Based Feature Vector Design for Efficient Citrus Disease Detection", *Computers, Materials & Continua*, Volume 72, Issues 3, pp. 4771-4787, April 2022. (with Bobbinpreet, Tripti Sharma, Bhawna Goyal, Ayush Dogra, Shubham Mahajan, Amit Kant Pandit)
12. **S. Aljahdali**, "Multi-Objective Optimization of Energy Aware Virtual Machine Placement in Cloud Data Center", *Intelligent Automation & Soft Computing*, Volume 33, Issues 3, pp. 1771-1785, March 2022. (with B. Gomathi, B. Saravana Balaji, V. Krishna Kumar, Mohamed Abouhawwash, Mehedi Masud, Nina Kuchuk)

13. **S. Aljahdali**, "Envisaging Employee Churn Using MCDM and Machine Learning", *Intelligent Automation & Soft Computing*, Volume 33, Issues 2, pp. 1009-1024, February 2022. (with Meenu Chaudhary, Loveleen Gaur, NZ Jhanjhi, Mehedi Masud)
14. **S. Aljahdali**, "SVM and KNN Based CNN Architectures for Plant Classification", *Computers, Materials & Continua*, Volume 71, Issues 3, pp. 4257-4274, January 2022. (with Sukanta Ghosh, Amar Singh, Kavita , N. Z. Jhanjhi, Mehedi Masud)
15. **S. Aljahdali**, "Enhanced cuckoo search algorithm for industrial winding process modeling", *Journal of Intelligent Manufacturing (Springer)*, pp. 1-30, January 2022. (with Malik Braik, Alaa Sheta, Heba Al-Hiary)
16. **S. Aljahdali**, "PAPR Reduction Using Advanced Partial Transmission Scheme for 5G Waveforms", *Computer Systems Science & Engineering*, Volume 42, Issues 2, pp. 483-492, January 2022. (with Arun Kumar, Sumit Chakravarty, S. Suganya, Mehedi Masud)
17. **S. Aljahdali**, "Classification of Parkinson Disease Based on Patient's Voice Signal Using Machine Learning", *Intelligent Automation & Soft Computing*, Volume 32, Issues 2, pp. 705-722, January 2022. (with Imran Ahmed, Muhammad Shakeel Khan, Sanaa Kaddoura)
18. **S. Aljahdali**, "IoT-EMS: An Internet of Things Based Environment Monitoring System in Volunteer Computing Environment", *Intelligent Automation & Soft Computing*, Volume 32, No.3, pp. 1493-1507, December 2021. (with Sourav Kumar Bhoi, Sanjaya Kumar Panda, Kalyan Kumar Jena, Kshira Sagar Sahoo, N. Z. Jhanjhi, Mehedi Masud)
19. **S. Aljahdali**, "Cataract Disease Detection by Using Transfer Learning-Based Intelligent Methods", *Computational and Mathematical Methods in Medicine*, Volume: 2021, pp. 1-11, December 2021. (with Md Kamrul Hasan ,Tanjum Tanha , Md Ruhul Amin , Omar Faruk ,Mohammad Monirujjaman Khan ,Mehedi Masud)
20. **S. Aljahdali**, "Design and Analysis of Commercially Viable Free-Space Optical Communication Link for Diverse Beam Divergence Profiles", *Frontiers in Physics*, Volume: 2021, pp. 1-11, December 2021. (with Harjeevan Singh, Rajan Miglani, Nitin Mittal , Gurjot Singh Gaba, Mehedi Masud)
21. **S. Aljahdali**, "Adaptive Transceiver Architecture with QoS Provision for OCDMA Network Based on Logic Gates", *IEEE Access*, Volume: 9, pp. 151089 – 151109, November 2021. (with Hassan Yousif Ahmed , Medien Zeghid Waqas Ahmed Imtiaz ,Teena Sharma, Akhtar Nawaz Khan, Kottakkaran Sooppy Nisar ,Abdel-Haleem Abdel-Aty, Mona Mahmoud)
22. **S. Aljahdali**, "Research and Development of an IoT-Based Remote Asthma Patient Monitoring System", *Journal of Healthcare Engineering*, Volume 2021, pp. 1-21, November 2021. (with Safayat Reza Anan ,Md. Azizul Hossain ,Md. Zubayer Milky ,Mohammad Monirujjaman Khan ,Mehedi Masud)
23. **S. Aljahdali**, "Deep Learning Based Automated Detection of Diseases from Apple Leaf Images", *Computers, Materials & Continua*, Volume 71, No.1, pp. 1849-1866, November 2021. (with Swati Singh, Isha Gupta, Sheifali Gupta, Deepika Koundal, Shubham Mahajan, Amit Kant Pandit)
24. **S. Aljahdali**, "Prediction of Covid-19 Based on Chest X-Ray Images Using Deep Learning with CNN", *Computer Systems Science & Engineering*, Volume 41, No.3, pp. 1223-1240, November 2021. (with Anika Tahsin Meem, Mohammad Monirujjaman Khan, Mehedi Masud)
25. **S. Aljahdali**, "On Soft Quantum B-Algebras and Fuzzy Soft Quantum B-Algebras", *Journal of Mathematics (Hindawi)*, Volume 2021, pp. 1-8, October 2021. (with Xiongwei Zhang, Ahmed Mostafa Khalil)
26. **S. Aljahdali**, "A Monte Carlo Based COVID-19 Detection Framework for Smart Healthcare", *Computers, Materials & Continua*, Volume 70, No.2, pp. 2365-2380,

- September 2021. (with Tallat Jabeen, Ishrat Jabeen, Humaira Ashraf, Nz Jhanjhi, Mamoon Humayun, Mehedi Masud)
27. **S. Aljahdali**, "Smart Home Automation Using Intelligent Electricity Dispatch", IEEE Access, Volume 9, pp. 118077 – 118086, August 2021. (with Muhammad Javed Iqbal, Muhammad Munwar Iqbal, Iftikhar Ahmad, Muneer Ahmad, N. Z. Jhanjhi, Mamoon Mushtaq)
  28. **S. Aljahdali**, "New logarithmic operational laws-based complex q-rung orthopair fuzzy aggregation operators and their application in decision-making process", Complexity, Volume 2021, pp. 1-32, August 2021. (with Harish Garg, Zeeshan Ali, Tahir Mahmood, Habib Shah)
  29. **S. Aljahdali**, "Multi-criteria decision-making algorithm based on aggregation operators under the complex interval-valued q-rung orthopair uncertain linguistic information", Journal of Intelligent & Fuzzy Systems, Volume 41, Issue 1, pp. 1627-1656, August 2021. (with Harish Garg, Zeeshan Ali, Zaoli Yang, Tahir Mahmood)
  30. **S. Aljahdali**, "Optimization of PID Controller to Stabilize Quadcopter Movements Using Meta-Heuristic Search Algorithms", Applied Sciences, Volume 11, Issue 14, pp. 6492-6524, July 2021. (with Alaa Sheta, Malik Braik, Dheeraj Reddy Maddi, Ahmed Mahdy, Hamza Turabieh)
  31. **S. Aljahdali**, "FoG-Oriented Secure and Lightweight Data Aggregation in IoMT", IEEE Access, Volume 9, pp. 111072 - 111082, July 2021. (with Muhammad Azeem, Ata Ullah, Humaira Ashraf, Nz Jhanjhi, Mamoon Humayun, Thamer A. Tabbakh)
  32. **S. Aljahdali**, "A Comparative Analysis of Machine Learning Algorithms to Predict Alzheimer's Disease", Journal of Healthcare Engineering, Volume 2021, pp. 1-12, July 2021. (with Morshedul Bari Antor, A. H. M. Shafayet Jamil, Maliha Mamtaz, Mohammad Monirujjaman Khan, Manjit Kaur, Parminder Singh, Mehedi Masud)
  33. **S. Aljahdali**, "A Cost-Efficient Autonomous Air Defense System for National Security", Security and Communication Networks, Volume 2021, pp. 1-10, June 2021. (with Fazle Rabby Khan, Md. Muhabullah, Roksana Islam, Mohammad Monirujjaman Khan, Mehedi Masud, Avinash Kaur, Parminder Singh)
  34. **S. Aljahdali**, "Some complex intuitionistic uncertain linguistic heronian mean operators and their application in multiattribute group decision making", Journal of Mathematics Volume 2021, pp. 1-31, May 2021. (with Harish Garg, Zeeshan Ali, Jeonghwan Gwak, Tahir Mahmood)
  35. **S. Aljahdali**, "Automatic PSO Based Path Generation Technique for Data Flow Coverage", Intelligent Automation & Soft Computing, Volume 29, Issues 1, pp. 147-164, May 2021. (with Ahmed S. Ghiduk, Moheb R. Girgis, Eman Hassan)
  36. **S. Aljahdali**, "Some similarity and distance measures between complex interval-valued q-rung orthopair fuzzy sets based on cosine function and their applications", Mathematical Problems in Engineering, Volume 2021, pp. 1-25, April 2021. (with Harish Garg, Zeeshan Ali, Tahir Mahmood)
  37. **S. Aljahdali**, "A Smart Stick For Assisting Visually Impaired People", Journal of Theoretical and Applied Information Technology, Volume 96, Issues 14, pp. 4405-4416, July 2018. (with Anwar)
  38. **S. Aljahdali**, "Quartic Spline Collocation for Solving Eigenvalue Problems", International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 4, Issues 12, Dec 2014. (with zanaty)
  39. **S. Aljahdali**, "Semi-automatic Region Growing Method for Brain MRIs Segmentation", International Journal of Computers and Their Applications, Volume 21, Issues 1, March 2014. (with zanaty)
  40. **S. Aljahdali**, "Innovative Large Scale Wireless Sensor Network Architecture Using Satellites and High-Altitude Platforms", European Journal of Computer Science and

- Information Technology, Volume 2, Issue 1, pp. 12-19, Jan 2014. (With Yasser Albagory, Fahad Al Raddady, and Omar Said)
41. **S. Aljahdali**, "Security Issues and Their Techniques in DBMS - A Novel Survey", International Journal of Computer Applications, Volume 85, Issue 13, pp. 39-43, Jan 2014. (With Mohd Muntjir, Mohd Asadullah, Junedul Haq)
  42. **S. Aljahdali**, "Stability Margins and Multi-parameter Bifurcation Analysis in Indirect Field-Oriented Control of Induction Machines", International Transaction of Electrical and Computer Engineers System, Volume 1, Issue 1, pp.6-14. Dec 30, 2013. (with Nizar Jabli, Hédi Khammari, M. Mimouni)
  43. **S. Aljahdali**, "DBMS Integration with Cloud Computing", European Journal of Computer Science and Information Technology, Volume 1, Issue 1, pp. 23-29, Sep 2013. (With Mohd. Muntjir)
  44. **S. Aljahdali**, "Experimental and Theoretical Speedup Prediction of MPI-Based Applications", Computer Science and Information Systems - The international journal published by ComSIS Consortium, Volume 10, Issue 3, pp. 1247-1267, June 2013. (with Alaa Elnashar)
  45. **S. Aljahdali**, "Significance of Cohen's Class for Time Frequency Analysis of Signals", IJCA International Journal of Computer Applications, Volume 72, Issue 12, pp. 1 – 6, June 2013. (with Azeemsha and Nasimudeen)
  46. **S. Aljahdali**, "New Region Growing Algorithm for Brain Images Segmentation", Journal Of Global Research In Computer Science, Volume 4, Issue 5, pp. 1 – 6, May 2013. (with zanaty, Ashraf Khater)
  47. **S. Aljahdali**, "Comparative Prediction Performance with Support Vector Machine and Random Forest Classification Techniques", International Journal of Computer Applications, Volume 69, Issue 11, pp. 12 – 15, May 2013. (with Ashfaq Ahmed, Syed Naimathullah)
  48. **S. Aljahdali**, "An Efficient methodology for the Evaluations of Select Operation in Query Optimization", International Journal of Computer Applications, Volume 70, Issue 07, pp. 12 – 16, May 2013.. (with Syed Naimathullah)
  49. **S. Aljahdali**, "Web Mining Techniques in E-Commerce Applications", International Journal of Computer Applications, Volume 69, Issue 08, pp. 39 – 43, May 2013. (with Ahmad Tasnim Siddiqui)
  50. **S. Aljahdali**, "Enhancing the Capacity of Stratospheric Cellular Networks Using Adaptive Array Techniques", International Journal of Computer Network and Information Security. Volume 6, Issue 1, pp. 1-10. May 2013. March, 2013.
  51. **S. Aljahdali**, "An Approach for Reconstructed Color Image Segmentation using Edge Detection and Threshold Methods", International Journal of Computer Applications. Volume 68, Issue 11, pp. 32 – 36, April 2013 (with Mohd. Junedul Haque)
  52. **S. Aljahdali**, "Building a Real Word Spell Checker Based on Power Links", International Journal of Computer Applications. Volume 65, Issue 07, pp. 14 – 19, March 2013 (with Mahmoud Rokaya)
  53. **S. Aljahdali**, "Simplified Sidelobe Reduction Techniques for Concentric Ring Arrays", Wireless Personal Communications, Volume 72, Issue 01, pp. 2981 – 2991, Springer, January 2013. (with Mostafa Nofala, Yasser Albagory)
  54. **S. Aljahdali**, "Tapered beamforming for concentric ring arrays", International Journal of Electronics and Communications, Volume 67, Issue 01, pp. 58 – 63, January 2013. (with Mostafa Nofala, Yasser Albagory)
  55. **S. Aljahdali**, "An Algebra of Fuzzy (m,n)-Semihyperring", American Journal of Computational Mathematics; Volume 3, Issue 1, pp. 73-79, March 2013 (with S. E. Alam , Hundewale N)

56. **S. Aljahdali**, "KM capability for software development: A Case Study of the Indian Software Firms", *International Journal of Business Information Systems*. Volume 12, Issue 1, pp. 44-67, January 2013. (With Kammani A, Date H).
57. **S. Aljahdali**, "Geometrical Correction For Cell Deployment In Stratospheric Cellular Systems", *Progress In Electromagnetics Research C*, Volume 29, Issue 01, pp. 83 – 96, 2012. (with Mostafa Nofala, Yasser Albagory)
58. **S. Aljahdali**, "Automatic Fuzzy algorithms for Reliable Image Segmentation", *International Journal of Computers and Their Applications*, Volume 19, Issue 03, pp. 166 - 175, Sep, 2012. (with Zanaty)
59. **S. Aljahdali**, "Developing an Embedded Model for Test suite prioritization process to optimize consistency rules for inconsistencies detection and model changes", *Global Journal of Computer Science and Technology*, Volume 12, Issue 11, pp. 3 - 15, June, 2012. (with Muzammil H Hussain)
60. **S. Aljahdali**, "A Proposed Hybrid Technique for Recognizing Arabic Characters", *International Journal of Advanced Research in Artificial Intelligence*, Volume 1, Issue 4, pp. 35-43, 2012. (with S.F. Bahgat, S.Ghomiemy, M. Alotaibi)
61. **S. Aljahdali**, "Context-Sensitive Spell Checking Based on Field Association Terms Dictionaries", *International Journal of Computer Science and Network Security*, Volume 12, Issue 5, May, 2012. (with Mahmoud Rokaya, and Abdallah Nahla)
62. **S. Aljahdali**, "A New Validity Index for Fuzzy C-means for Automatic Medical Image Clustering", *International Journal of Computer Applications*, Volume 38, Issue 12, pp. 1-8, Jan, 2012. (with F. Bahgth, E. A. Zanaty, Ahmed S. Ghiduk, Ashraf Afifi)
63. **S. Aljahdali**, "Model-Driven Performance for the Pattern and Advancement of Software Exhaustive Systems" on the Internet. *International Journal of Engineering Trends and Technology- Volume 2 Issue 2*, pp. 49-54, October, 2011. (with Muzammil H Hussain, Nisar Hundewale)
64. **S. Aljahdali**, "An Intelligent Technique to Multi-sensor Data Fusion in Target Tracking", *Journal of Theoretical and Applied Information Technology*, Volume 30, Issue 2, pp. 86-97, August 31, 2011. (with Anwar)
65. **S. Aljahdali**, "Development of Software Reliability Growth Models for Industrial Applications Using Fuzzy Logic", *Journal of Computer Science*, Volume 07, Issue 10, pp. 1574-1580, August 2011.
66. **S. Aljahdali**, "Relational Peer to Peer Database Management Systems: A Survey", *Journal of Computational Methods in Science and Engineering*, Volume 11, Issue 1, pp. 163-175, September 2011.
67. **S. Aljahdali**, "Concurrent Execution of Transactions in a Peer-to-Peer Database Network", *International Journal of Intelligent Information and Database Systems*, Volume 5, Issue 5, pp. 510 – 531, 2011. (with Mehedi)
68. **S. Aljahdali**, "A Dedicated Web-Based Learning System", *Universal Journal of Computer Science and Engineering Technology (UniCSE)*, Volume 1, Issue 2, pp. 84–92, November 2010. (with Ghoniemy, Fahmy)
69. **S. Aljahdali**, "Relational Peer Data Sharing Settings and Consistent Query Answers", *International Journal on Computer Science and Engineering*, Volume 2, Issue 9, pp. 3053-3059, 2010. (with Mehedi)
70. **S. Aljahdali**, "An effective intrusion detection method using optimal hybrid model of classifiers", *Journal of Computational Methods in Science and Engineering*, Volume 10, Issue 1, pp. 51-60, September 2010.
71. **S. Aljahdali**, "Development of a Software Effort Estimation Model Using Differential Evolution", *Journal of Electronics and Computer Science*, Volume 12, Issue 1, pp. 1-8, July 2010.

72. **S. Aljahdali**, "Consistent Execution of Concurrent Transactions in Peer Data Sharing Systems", *Journal of Electronics & Computer Science*, Volume 12, Issue 1, pp. 87-95, July 2010. (with Mehedi)
73. **S. Aljahdali**, "Improving Fuzzy Algorithms for Automatic Magnetic Resonance Image Segmentation", *International Arab Journal of Information Technology*, Volume 6, Issue 3, pp. 271 – 280, July 2010. (with Zanaty)
74. **S. Aljahdali**, "An efficient mesh-based multicast routing protocol in mobile ad hoc networks," *Wireless Communications and Mobile Computing*, 2010, Published online in Wiley Online Library (Astier, E., and Hafid, A.)
75. **S. Aljahdali**, "Accurate support vector machines for data classification", *International Journal of Rapid Manufacturing*, Volume 1, Issue 2, pp. 114 – 127, December 3, 2009. (with Zanaty and Cripps)
76. **S. Aljahdali**, "A Kernelized Fuzzy C-means Algorithm for Automatic Magnetic Resonance Image Segmentation", *Journal of Computational Methods in Science and Engineering*, Volume 9, Issue 1, pp. 123-136, 2009. (with Zanaty and Debnath)
77. **S. Aljahdali**, "Improving Data Reduction for 3D Shape Preserving", *Journal of Computational Methods in Science and Engineering*, Volume 9, Issue 1, pp. 35-51, 2009. (with Zanaty and Debnath)
78. **S. Aljahdali**, "Multi-Objective Optimization for Ensemble of Models in Software Reliability Prediction", *International Journal of Software Engineering*, Volume 2, Issue 1, pp. 47–66, 2009.
79. **S. Aljahdali**, "Employing four ANNs Paradigms for Software Reliability Prediction: an Analytical Study", *International Journal on Artificial Intelligence and Machine Learning*, Volume 8, Issue 2, pp. 1-8, September 2008. (with Buragga)
80. **S. Aljahdali**, "Design, and Implementation of Meta-Protocol Framework for Dynamic Communication Protocols Specifications", *International Journal of Intelligent Computing and Information Sciences*, Volume 8, Issue 1, pp. 173-190, 2008.
81. **S. Aljahdali**, "Genetic Algorithms for Optimizing Ensemble of Models in Software Reliability Prediction", *International Journal on Artificial Intelligence and Machine learning*, Volume 8, Issue 1, pp. 5-13, June 2008. (with El-Telbany)
82. **S. Aljahdali**, "Best hybrid classifiers for intrusion detection", *Journal of Computational Methods in Science and Engineering*, Volume 6, Issue 2, pp. 299-307, 2006. (with Kholfi, and Habib)
83. **S. Aljahdali**, "Response of Magnetostrictive smart structures to sinusoidal and step force inputs", *Journal of Computational Methods in Science and Engineering*, Volume 6, Issue 2, pp. 389-398, 2006. (with Hyder)

### **Conferences:**

1. **S. Aljahdali**, "Hybrid Evolutionary Neural Network Models for Gold Price Prediction". 26<sup>th</sup> International Arab Conference on Information Technology (ACIT'2025) which is organized by the Arab Academy for Science, Technology & Maritime Transport (AASTMT), December 16-18, 2025, Alexandria-Egypt, (with Sheta Alaa, Walaa H. Elashmawi, Peter Rauch, Emad S. Othman)
2. **S. Aljahdali**, "Meta-heuristic Search Algorithms for Solving the Economic Load Dispatch". 3rd IEEE International Conference on Artificial Intelligence, Robotics and Control (AIRC 2022) May 20-22, 2022, Cairo, Egypt (with Alaa Sheta, Alaa Ali, and Abdelkarim Baareh)
3. **S. Aljahdali**, "An Integrated Framework for Friend Recommender System Using Graph Theoretic Approach". 35th International Conference on Computers and Their Applications, March 23-25, 2020, San Francisco, California, USA (with Narayan C. Debnath)

4. **S. Aljahdali**, "Pavement Crack Detection Using a Lightweight Convolutional Neural Network". 35th International Conference on Computers and Their Applications, March 23-25, 2020, San Francisco, California, USA (with Alaa Sheta, Hamza Turabieh, and Abdulaziz Alangari)
5. **S. Aljahdali**, "Real-Time Learner Classification Using Cognitive Score". 35th International Conference on Computers and Their Applications, March 23-25, 2020, San Francisco, California, USA (with Narayan C. Debnath)
6. **S. Aljahdali**, "River Flow Forecasting: A Comparison between Feed forward and Layered Recurrent Neural Network", 3rd International Conference Europe Middle East & North Africa On Information System Technology and Learning Researches EMENA-ISTL-2019, November 21-23, 2019, Marrakech, Morocco (with Alaa Sheta and Hamza Turabieh)
7. **S. Aljahdali**, "Diagnosis of Brain Tumor in MR Images Using Metaheuristic Optimization Algorithms".3rd International Conference Europe Middle East & North Africa On Information System Technology and Learning Researches EMENA-ISTL-2019, November 21-23, 2019, Marrakech, Morocco (with Alaa Sheta, Malik Braik)
8. **S. Aljahdali**, "Machine Learning as an Efficient Diagnostic Tool for Fault Detection and Localization in Solar Photovoltaic Arrays". 32nd International Conference on Computer Applications in Industry and Engineering held on September 30-October 2, 2019 in San Diego, California, USA (with Masoud Alajmi)
9. **S. Aljahdali**, "Utilizing Faults and Time to Finish Estimating the Number of Software Test Workers Using Artificial Neural Networks and Genetic Programming". International Conference Europe Middle East & North Africa on Information Systems and Technologies to support Learning 2018 (EMENA-ISTL 2018), Oct 25-27, 2018 - Fez - Morocco (with Sheta A., and Braik M.)
10. **S. Aljahdali**, "Assessing gene-disease relationship with multifunctional genes using GO", IEEE/ACS 13th International Conference of Computer Systems and Applications (AICCSA), Nov 29 – Dec 02, 2016; Agadir - Morocco, (with Hisham Al-Mubaid and Mohamed Shenify)
11. **S. Aljahdali**, "Estimating software effort and function point using regression, Support Vector Machine and Artificial Neural Networks models", 2015 IEEE/ACS 12th International Conference of Computer Systems and Applications (AICCSA), November 17-20, 2015; Marrakech, Morocco (with Alaa F. Sheta and Narayan C. Debnath)
12. **S. Aljahdali**, "Incorporating R&D Activities into Computer Engineering Teaching & Learning Program in Albaha University", International Conference on Learning and Teaching in Computing and Engineering, (LaTiCE) Apr 9-12, 2015; Taipei, Taiwan (with Mohammed Shenify, Rahmat Budiarto and Hisham M. Alsaghier)
13. **S. Aljahdali**, "Mutation Testing Using Symbolic Execution and Path", Mediterranean Conference on Information & Communication Technologies, May 7-9, 2015 - Saïdia - Morocco (with Khalid Buragga, Marcel Karam and Ahmed Ghiduk)
14. **S. Aljahdali**, "Fuzzy C-Means Algorithm Based on Gaussian Function for Magnetic Resonance Images (MRIs) Segmentation", 30th International Conference on Computers and Their Applications (CATA), March 9-11, 2015, Honolulu, Hawaii, USA (with Khalid A. Buragga, Zanaty)
15. **S. Aljahdali**, "An Efficient Technique for Iris Recognition using Wavelets and Artificial Neural Networks", 30th International Conference on Computers and Their Applications (CATA), March 9-11, 2015, Honolulu, Hawaii, USA (with Khalid A. Buragga, Ahmad. M. Sarhan)
16. **S. Aljahdali**, "Intelligent Tutoring Systems -An Advanced Understanding of the Programming Concepts", 2013 IEEE International Conference on Computational

- Intelligence and Computing Research (ICCIC) , Dec 26-28, 2013, Madurai, India (with Isbudeen Noor Mohamed, Mohamed Idhris)
17. **S. Aljahdali**, "Temporal Key Based Randomized Efficient and Distributed Detection of Clone Attack in WSNs", International Conference on Computer Applications in Industry and engineering (CAINE), Sep 25-27, 2013, Los Angeles, USA (with Wazir Khan, Mohammed Aalsalem, Naufal Saad)
  18. **S. Aljahdali**, "Thresholds for Region Growing Method for Segmenting MRIs", International Conference on Computer Applications in Industry and engineering (CAINE), Sep 25-27, 2013, Los Angeles, USA (with Zanaty and Fahad)
  19. **S. Aljahdali**, "Improving Fuzzy C-Means for MRIs Segmentation", International Conference on Computer Applications in Industry and engineering (CAINE) , Sep 25-27, 2013, Los Angeles, USA (with Zanaty and Marcel)
  20. **S. Aljahdali**, "Automatic Text Extraction Based on Field Association Terms and Power Links", International Conference on Computer Applications in Industry and engineering (CAINE), Sep 25-27, 2013, Los Angeles, USA (with Mahmoud B. Rokaya and Dalia Hemdan)
  21. **S. Aljahdali**, "Cancer Disease Prediction with Support Vector Machine and Random Forest Classification Techniques", Proceedings of the IEEE International Conference on Computational Intelligence and Cybernetics (CyberneticsCom) Jul 12 - 14, 2012, Bali, Indonesia (with Ashfaq Ahmed, Nisar Hundewale, Ishthaq Ahmed)
  22. **S. Aljahdali**, "A Methodology for the abstraction of design components from SRS" Proceedings of the 3<sup>rd</sup> IEEE International Conference on Software Engineering and Service science (ICSESS 2012) June 22-24, 2012, Beijing, China (with Syed Naimathullah, Nisar Hundewale, Ashfaq)
  23. **S. Aljahdali**, "Test Management and Control" Proceedings of the 3<sup>rd</sup> IEEE International Conference on Software Engineering and Service science (ICSESS 2012) June 22-24, 2012, Beijing, China (with Syed Naimathullah, Nisar Hundewale, Azeemsha)
  24. **S. Aljahdali**, "A Modified Array Processing Technique Based on Kaiser Window for Concentric Circular Arrays" Proceedings of the 3<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco (with Yasser Albagory, Mostafa Nofal)
  25. **S. Aljahdali**, "Overview on Modeling and Design of Stratospheric Mobile Cellular System" Proceedings of the 3<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco (with Yasser Albagory, Mostafa Nofal)
  26. **S. Aljahdali**, "Genetic Algorithms: A Tool for Image Segmentation" Proceedings of the 3<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco (with Alaa Sheta, Malik Braik)
  27. **S. Aljahdali**, "A Two-Level Load Balancing Policy For Grid Computing" Proceedings of the 3<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco (with Said El-Zoghdy)
  28. **S. Aljahdali**, "Classification of Image Database using SVM with Gabor Magnitude" Proceedings of the 3<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco (with Aasif Ansari, Nisar Hundewale)
  29. **S. Aljahdali**, "Study on Hexagonal Grid in Image Processing" Proceedings of the 4<sup>th</sup> International Conference on Digital Image Processing ('ICDIP 2012') April 7-8, 2012, Kuala Lumpur, Malaysia (with Fayas Asharinda, Nisar Hundewale)
  30. **S. Aljahdali**, "Weighed Graph Transformation Rules and Fuzzy Logic for Better Design Pattern Recognition" Proceedings of the 25<sup>th</sup> Annual Canadian Conference on

- Electrical & Computer Engineering; April 29–May 2, 2012, Montréal; Canada (with Marcel Karam, Hamid Mcheick, Rasha Abdallah Hala Ollaic)
31. **S. Aljahdali**, “Highway Multihop Broadcast Protocols for Vehicular Networks” Proceedings of the IEEE International Conference on Communications - Wireless Networks Symposium ('ICC'12 WN') June 10-15, 2012, Ottawa, Canada (with Hakim)
  32. **S. Aljahdali**, “Basis Test Paths Generation Using Genetic Algorithm”, Proceedings of the 1st Taibah University International Conference on Computing and Information Technology ('ICCIT 2012') March 12-14, 2012, Madina, Saudi Arabia (with Ahmed Ghiduk and Omar Said)
  33. **S. Aljahdali**, “On Internet Multicast Architectures: Fully Distributed and Hierarchical Vs Service-Centric” Proceedings of the International Arab Conference on Information Technology (ACIT 2011) December 11-14, 2011, Riyadh, Saudi Arabia
  34. **S. Aljahdali**, “Expert System for Islamic Punishment (ESIP)” Proceedings of the International Arab Conference on Information Technology (ACIT 2011) December 11-14, 2011, Riyadh, Saudi Arabia
  35. **S. Aljahdali**, “A Baysian Approach to Intelligent Tutoring Systems for Logic Circuit Design Problem Solving” Proceedings of the 24<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, November 16-18, 2011, Honolulu, Hawaii, USA. (with Hossam Meshref)
  36. **S. Aljahdali**, “Performance Analysis for Truncated ARQ based DSFBC-CO-OFDM Communication Scheme” Proceedings of the 24<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, November 16-18, 2011, Honolulu, Hawaii, USA. (with Irfan Ahmed, Nisar Hundewale, Amr Mohamed and Syed Ismail Shah)
  37. **S. Aljahdali**, “Increasing the Reliability of the Collected Data in Wireless Sensor Networks” Proceedings of the 24<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, November 16-18, 2011, Honolulu, Hawaii, USA. (with Yaqoob J.Y. Al-Raisi , Nazar Alfadil)
  38. **S. Aljahdali**, “Two Automated Techniques for Analyzing and Debugging MPI-Based Programs” Proceedings of the 24<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, November 16-18, 2011, Honolulu, Hawaii, USA. (with Mosaid Al Sadhan, Alaa Ismail Elnashar)
  39. **S. Aljahdali**, “Goal Oriented Requirements Engineering - A Review”, Proceedings of the 24<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, November 16-18, 2011, Honolulu, Hawaii, USA. (with Jameela Bano, Nisar Hundewale)
  40. **S. Aljahdali**, "OFDM Symbol Detection Using FPGA", Proceedings of the IEEE International Conference on Computational Intelligence and Computing Research, Dec 15-18, 2011 Levingipuram, India (With Mir Ahtesham Ali, Nisar Hundewale)
  41. **S. Aljahdali**, “Predicting the Reliability of Software Systems Using Fuzzy Logic”, Proceedings of the 8<sup>th</sup> IEEE International Conference on Information Technology - New Generations (ITNG), Las Vegas, Nevada, USA, April 11-13, 2011 (with Sheta)
  42. **S. Aljahdali**, “Improving Fuzzy Algorithms for Automatic Image Segmentation”, Proceedings of the 2<sup>rd</sup> International Conference on Multimedia Computing and Systems (ICMCS' 11), Ouarzazate, Morocco, April 7-9, 2011 (with Zanaty)
  43. **S. Aljahdali**, “Evolutionary Prediction for Cumulative Failure Modeling: A Comparative Study”, Proceedings of the 8<sup>th</sup> IEEE International Conference on Information Technology – New Generations (ITNG), Las Vegas, Nevada, USA, April 11-13, 2011 (with Benaddy, and Wakrim)
  44. **S. Aljahdali**, “Automatic Breast Cancer Detection Methodology Using Artificial Neural Networks,” Proceedings of the European Conference for the Applied

- Mathematics And Informatics, Athens Greece, WSEAS Press, pp. 82-87. December 29-31 2010 (with Braik, M.and Sheta, A.F.)
45. **S. Aljahdali**, "Forecasting stock exchange using soft computing techniques", Proceedings of the 8th ACS/IEEE International Conference on Computer Systems and Applications, Hammamet, Tunisia, May 16-19, 2010 (with Rahamneh, Reyalat, Sheta)
  46. **S. Aljahdali**, "Software Effort Estimation by Tuning COCOMO Model Parameters using Differential Evolution ", Proceedings of the 8th ACS/IEEE International Conference on Computer Systems and Applications, Hammamet, Tunisia, May 16-19, 2010 (with Sheta)
  47. **S. Aljahdali**, "The Limitation of Genetic Algorithms in Software Testing", Proceedings of the 8th ACS/IEEE International Conference on Computer Systems and Applications, Hammamet, Tunisia, May 16-19, 2010 (with Ghiduk, El-Telbany)
  48. **S. Aljahdali**, "Bio-inspired learning for microarray Gene selection and cancer classification", Proceedings of 9th IEEE International Symposium on Signal Processing and Information Technology, Ajman, UAE, December 14-17, 2009 (with El-Telbany)
  49. **S. Aljahdali**, "Centered and Robust Multicast Routing in Mobile Ad Hoc Networks", Proceedings of 6th IEEE International Conference on Broadband Communications, Networks, and Systems (Broadnets), Spain, September 14-16, 2009 (with Astier, Hafid)
  50. **S. Aljahdali**, "Adoption of Technology Acceptance Model (TAM) to Electronic Commerce: A Statistical Meta-Analysis Approach", Proceedings of the 18th International Conference on Software Engineering and Data Engineering, Las Vegas, Nevada, USA, June 22-24, 2009 (with Filimban)
  51. **S. Aljahdali**, "Natural-Inspired Data Clustering: A Hybridization between Ant Clustering and Particle Swarm Optimization", Proceedings of the 18th International Conference on Software Engineering and Data Engineering, Las Vegas, Nevada, USA, June 22-24, 2009 (with El-Telbany, Rafat)
  52. **S. Aljahdali**, "Software Reliability Prediction Using Multi-Objective Genetic Algorithm", Proceedings of the 7th ACS/IEEE International Conference on Computer Systems and Applications, Rabat, Morocco, May 10-13, 2009 (with El-Telbany)
  53. **S. Aljahdali**, "Evolutionary Neural Network Prediction for Cumulative Failure Modeling", Proceedings of the 7th ACS/IEEE International Conference on Computer Systems and Applications, Rabat, Morocco, May 10-13, 2009 (with Benaddy, and Wakrim)
  54. **S. Aljahdali**, "Evolutionary Regression Prediction for Software Cumulative Failure Modeling: A Comparative Study", Proceedings of the ICMCS/IEEE International Conference on Multimedia Computing and Systems, Ouarzazate, Morocco, April 2-4, 2009 (with Benaddy, and Wakrim)
  55. **S. Aljahdali**, "Data Reduction Algorithm Based on Gaussian Image Estimation", Proceedings of 17th International Conference of Software Engineering and Data Engineering, Los Angeles, California, USA, June 30 - July 2, 2008, (with Zanaty)
  56. **S. Aljahdali**, "Improving Fuzzy Algorithms for Automatic Magnetic Resonance Image Segmentation", Proceedings of 17th International Conference of Software Engineering and Data Engineering, Los Angeles, California, USA, June 30 - July 2, 2008 (with Zanaty)
  57. **S. Aljahdali**, "Combining Multiple Segmentation Methods for Improving the Segmentation Accuracy", Proceedings of the thirteenth IEEE/ISCC Symposium on Computers and Communications, Marrakech, Morocco, July 6-9, 2008 (with Zanaty)

58. **S. Aljahdali**, "Improving the Accuracy of Support Vector Machines", Proceedings of the 23<sup>rd</sup> International Conference on Computers and their Application, Cancun, Mexico, April 9-11, 2008 (with Zanaty)
59. **S. Aljahdali**, "Iterative heuristic algorithm for optimum layout of clusters", Proceedings of the International Conference On Information Systems, Technology And Management, Dubai, U.A.E, March 6-8, 2008 (with R. Bhowmik)
60. **S. Aljahdali**, "Evolutionary Neural Network Prediction for Software Reliability Modeling", Proceedings of the 16<sup>th</sup> International Conference of Software Engineering and Data Engineering, Las Vegas, Nevada, USA, July 9-11, 2007 (with Buragga)
61. **S. Aljahdali**, "Optimal Hybrid Model of Classifiers for Intrusion Detection", Proceedings of the CSITeA' 04 International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, Cairo, Egypt, December 27-29, 2004 (with Kholfi and Habib)
62. **S. Aljahdali**, "Finite Element Modeling of Magnetostrictive Smart Structures", Proceedings of the CSITeA'04 International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, Cairo, Egypt, December 27-29, 2004 (with Hyder)
63. **S. Aljahdali**, "Improved Software Reliability Assessment through Fuzzy Logic Modeling", Proceedings of the 13<sup>th</sup> International Conference on Intelligent and Adaptive Systems and Software Engineering, Nice, France, July 1-3, 2004 (with Debnath)
64. **S. Aljahdali**, "Parameter Significance for Email Attack Detection", Proceedings of the International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, Rio de Janeiro, Brazil, June 5-7, 2003 (with Alduhaiman, and Francis)
65. **S. Aljahdali**, "Software Reliability Analysis Using Parametric and Non-Parametric Methods", Proceedings of the 18<sup>th</sup> International Conference on Computers and their Application, Honolulu, Hawaii, USA, March 26-28, 2003 (with Sheta and Habib)
66. **S. Aljahdali**, "Avoiding Redundancies and Conflicts in Security Protocols", Proceedings of the 18<sup>th</sup> International Conference on Computers and their Application, Honolulu, Hawaii, USA, March 26-28, 2003 (with Abdullah, and Sibley)
67. **S. Aljahdali**, "Predicting Accumulated Faults in Software Using Radial Basis Function Network", Proceedings of the 17<sup>th</sup> International Conference on Computers and their Application, San Francisco, CA, USA, April 4-6, 2002 (with Sheta and Rine)
68. **S. Aljahdali**, "Modeling of Nonlinear Systems Using Genetic Algorithms", Proceedings of the IASTED/AIA International Conference on Artificial Intelligence and Applications, Marbella, Spain, September 4-7, 2001 (with Sheta)
69. **S. Aljahdali**, "Prediction of Software Reliability: A Comparison between Regression Neural Non-Parametric Models", Proceedings of the IEEE/AICCSA International Conference on Computer Systems and Applications, Beirut, Lebanon, June 25-29, 2001 (with Sheta and Rine)

## Professional Responsibilities:

### *Organize Committee:*

1. 7th Edition EMENA International Conference on Intelligent Systems and Smart Technologies INTELSYST 2026, Fez, Morocco, October 22-24, 2026.

2. 4<sup>th</sup> International Conference on Artificial Intelligence, Robotics and Control which will be held in The British University in Egypt, Cairo, Egypt. May 9-11, 2023
3. 5<sup>th</sup> International Conference on Information System and Data Mining (ICISDM2021) will be held in Silicon Valley, CA, USA. May 27-29, 2021
4. 4<sup>th</sup> International Conference on Information System and Data Mining (ICISDM2020). University of Hawaii at Hilo, Hawaii, U.S.A, May 15-17, 2020.
5. 6<sup>th</sup> Joint IFIP Wireless and Mobile Networking Conference (WMNC'2013), Dubai, UAE, April 23-25, 2013.
6. 7<sup>th</sup> International conference on Systems and Networks Communications, Lisbon, Portugal, November 18-23, 2012
7. MASAUM International Congress on Enterprise Technology and Industrial Manufacturing 2012, (MIC-ETIM '12), Jakarta, Indonesia, December 17-18, 2012
8. International conference on the Current Trends in Information Technology, Dubai, United Arab Emirates, October 26-27, 2011
9. 2<sup>nd</sup> IEEE International Conference on Multimedia Computing and Systems, Ouarzazate, Morocco, April 07-09, 2011
10. 2<sup>nd</sup> IEEE International Conference on Network Applications, Protocols and Services NETAPPS2010, Alor Setar, Malaysia, September 22- 23, 2010
11. 5<sup>th</sup> International Conference on Systems and Networks Communications, ICSNC 2010, Nice, France, August 22-27, 2010
12. 7<sup>th</sup> International Conference on Information Technology: New Generations (Special Track on Information Systems and Internet Technology), Las Vegas, Nevada, USA, April 12-14, 2010
13. International conference on the Current Trends in Information Technology, Dubai, United Arab Emirates, December 8 - 9, 2009
14. 18<sup>th</sup> International Conference on Software Engineering and Data Engineering, Las Vegas, Nevada, USA, June 22 - 24, 2009
15. 4<sup>th</sup> International conference on Systems and Networks Communications, Porto, Portugal, September 20-25, 2009
16. 6<sup>th</sup> International Conference on Information Technology: New Generations (Special Track on Information Systems and Internet Technology), April 27-29, 2009, Las Vegas, Nevada, USA
17. IEEE International Symposium on Signal Processing and Information Technology, Sarajevo, Bosnia and Herzegovina, December 16-19, 2008
18. 17<sup>th</sup> International Conference of Software Engineering and Data Engineering, Los Angeles, California, USA, June 30 - July 2, 2008
19. 16<sup>th</sup> International Conference of Software Engineering and Data Engineering, Las Vegas, Nevada, USA July 9-11, 2007
20. 5<sup>th</sup> IEEE/ACS International Conference on Computer Systems and Applications, Amman, Jordan, May 13- 16, 2007
21. 22<sup>nd</sup> International Conference on Computers and their Application, Honolulu, Hawaii, USA, March 28-30, 2007.
22. 21<sup>st</sup> International Conference on Computers and their Application, Seattle, Washington, USA, March 23-25, 2006
23. IEEE IRI-2005, International Conference on Information Reuse and Integration (Knowledge Acquisition and Management) Las Vegas, Nevada, USA, August 2005
24. 14<sup>th</sup> International Conference on Intelligent and Adaptive Systems and Software Engineering, Toronto, Canada, July 2005
25. 20<sup>th</sup> International Conference on Computers and their Application, New Orleans, Louisiana, USA, March 16-18, 2005

26. 3rd International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, December 27-29, 2004, Cairo, Egypt
27. 19th International Conference on Computers and their Application, Seattle, Washington, USA, March 18-20, 2004

### ***Program Chair:***

28. 26th International Conference on Computer Applications in Industry and Engineering (CAINE) September 25-27, 2013, Los Angeles, USA
29. 3rd International Conference on Multimedia Computing and Systems (ICMCS'12) May 10-12, 2012, Tangier, Morocco
  
30. 24th International Conference on Computer Applications in Industry and Engineering (CAINE) November 12-14, 2011, Honolulu, Hawaii, USA

### ***Industrial Positions:***

- **Information Technology Manager**, General Authority of Civil Aviation, Saudi Arabia. [Jan 2006-Sep 2007]
  
- **Information Technology Manager**, Saudi Airlines, Saudi Arabia. [Jan 2005-Jan 2006]

### ***Citation:***

- *"Aljahdali et al. have also made contributions to software reliability growth prediction using neural networks, and have obtained better results compared to existing approaches with respect to predictive performance"*

Gregory Levitin, Ph.D.

*"Computational Intelligence in Reliability Engineering", 2006, pp 379*

- *"Aljahdali et al. have also made contributions to software reliability prediction using neural networks, and have gained better results compared to the traditional analytical models with respect to predictive performance"*

Afzel Noore, Ph.D., West Virginia University, USA

*"Journal of Reliability Engineering and System Safety", 2005, pp 45*