

# Curriculum Vitae

Name: Yazeed Ahmad Al-Sbou  
Date of Birth: 28/01/1974  
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## Education

- **PhD** in Computer Engineering, Sheffield Hallam University, Sheffield, United Kingdom, 2006. Thesis Title: “Quality of Service Assessment and Analysis of Wireless Multimedia Networks.”
- **MSc.** in Electrical Engineering/Telecommunications, University of Jordan, Amman, Jordan, 2001. Thesis Title: “End-point Detection of Arabic Speech Based on End-words Properties.”
- **B.Sc.** in Electrical Engineering/ Communications, Mutah University, Al-Karak, Jordan, 1997.
- **Secondary School:** Ja'far Ibn Abi Taleb Secondary School, Al-Karak, Jordan, 1991.

## Professional Experience

- 09/2016 – Present: Vice Dean, Deanship of Scientific Research, Mutah University, Al-Karak, Jordan.
- 09/2015 – 9/2016: Vice Dean, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 09/2013 – 09/2015: Head of the Computer Engineering Department, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 09/2014 – 09/2015: Dean Assistant for Academic Affairs, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 10/2012 – Present: Associate Professor, Computer Engineering Department, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 04/2007 – 9/2012: Assistant Professor, Computer Engineering Department, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 06/2011 – 09/2011, Researcher (DAAD Postdoc sponsorship), Technical University of Kaiserslautern, Kaiserslautern, Germany.
- 09/2005 – 06/2006: Lecturer, Faculty of Art, Computing, Engineering and Science (ACES) at Sheffield Hallam University, Sheffield, United Kingdom.
- 09/2002 – 09/2003: Lecturer, Communications Technology Department, College of Communication and Electronics, Jeddah, Saudi Arabia.

- 07/1999 – 09/2002: Communications Engineer, Jordanian Civil Aviation, Queen Alia International Airport, Amman, Jordan
- 01/1998 – 02/1999: Electrical Engineer, Jordanian Cement Factories Company.
- 04/1997 – 04/1998: A trainee Communications Engineer at Jordan Telecom.
- 07/1996 – 08/1996: Hellwan University, Cairo, Egypt (Training).
- 06/1996 – 07/1996: Jordan Telecom (Training).

### **Honors and Awards**

- **Post Doc**, Research Stay for University Academics and Scientists in Germany (Post Doctorate), German Academic Exchange service (**DAAD**) Sponsorship at the Technical University of Kaiserslautern, Germany, 13<sup>th</sup> June – 13<sup>th</sup> September, 2011.
- **Ph.D.** Graduate Student Scholarship, Mutah University, Jordan, to pursue PhD study in Computer Engineering in the UK, 2003-2006.
- Undergraduate Student Scholarship (**B.Sc.**), Jordan Ministry of Higher Education and Scientific Research, 1992-1997.

### **Responsibilities**

- 9/2016 – Present: Vice Dean, Deanship of Scientific Research, Mutah University, Al-Karak, Jordan.
- 09/2015 – 9/2016: Vice Dean, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2015 – 2016: Faculty of Graduate Study Council Member, Mutah University, Al-Karak, Jordan.
- 2013 – 2015: Head of the Computer Engineering Department, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2013 – 2015: Industrial Engineering Department Council Member, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2013 – 2015: Member of the Graduate Studies Committee, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2013 – 2015: Member of the Graduate Studies Committee, Industrial Engineering Department, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2010 – 2011: Quality Assurance and Control Committee Member, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2009 – 2010: Curriculum Renewing Committee, Computer Engineering Department, Mutah University.
- 2009 – 2010: Computer Engineering Department Council Secretary, Faculty of Engineering, Mutah University, Al-Karak, Jordan.
- 2008 – 2009: Member of the Faculty of Engineering Executive board and Representative of the Computer Engineering Department, Mutah University, Al-Karak, Jordan.
- 2007 – Present: Students Advisor, Computer Engineering Department, Mutah University, Al-Karak, Jordan.
- 2007 – Present: Member of the Computer Engineering Department Council, Mutah University, Al-Karak, Jordan.

## **Research Interests**

- Wired and wireless computer networks performance evaluation
- Quality of Service (QoS) analysis and assessment of computer networks
- Image processing and image denoising
- Routing in wireless computer networks
- Fuzzy logic and neural networks applications
- Speech processing
- Simulation and modeling
- Multimedia transmission/reception over telecommunications networks
- Cognitive Networks

## **List of Publications**

- **Book Chapters**

Ayyash, M. and Al-Sbou, Yazeed A. Anan, Mohamad, (2015). Introduction to Mobile Ad-hoc and Vehicular Networks. Book Chapter in: Wireless Sensor and Mobile Ad-Hoc Networks Vehicular and Space Applications. ISBN 978-1-4939-2468-4. Published by Springer.

Ayyash, M. and Al-Sbou, Yazeed A. (2012). Cross-layer Design for Cognitive Radio Networks. A chapter in the "Cognitive Radio and Interference Management: Technology and Strategy" book. Published by the IGI Global Publisher.

- **Journal Publications**

Al-Sbou, Yazeed. (2017). "Optimizing Image Compression Using Singular Value Decomposition Based on Structural Similarity Index." International Journal on Communications, Antenna and Propagation (IRECAP).

Al-Sbou, Yazeed. (2017). "Nonlinear Autoregressive Recurrent Neural Network Model for Solar Radiation Prediction." International Journal of Applied Engineering Research (IJAER).

Al-Sbou, Yazeed. (2017). "Quality of Service Estimation of Multimedia Transmission Using Nonlinear Autoregressive Exogenous Model." JJEE, 3(1): 49-63.

Saraireh, Saleh, Al-Sbou, Yazeed, Al-Saraireh, Ja'afar and Alsmadi, Othman. (2014). "Image Encryption Scheme Based on Filter Bank and Lifting" *International Journal of Communications, Network and System Sciences (IJCNS)*, 7 (1),

Saraireh, Saleh, Saraireh, Mohammad and Al-Sbou, Yazeed, (2013). "Secure Image Encryption Using Filter Bank and Addition Modulo 28 with XOR Combination" *International Journal of Computer Science and Security (IJCSS)*, 7(2),

Al-Sbou, Yazeed A. (2012). Artificial Neural Networks Evaluation as an Image Denoising Tool. *World Applied Sciences Journal (WASJ)*, 17 (2): 218-227.

Al-Sbou, Yazeed A. (2012). A Novel Approach Quality of Service Monitoring of Mobile Ad Hoc Networks. *Middle East Journal of Scientific Research (MEJSR)*, 11(7): 934-942, 2012.

Al-Sbou, Yazeed A. (2012). Probing Packets Efficiency and Effectiveness on Network Performance and Measurements. *Journal of Information and Computing Science (JIC)*, 7(2); 143-150.

Matarneh, Aser M. and Al-Sbou, Yazeed A. (2012). New Investigation of Image Transmission Using Radio over Fiber System. *Journal of Trends in Applied Sciences Research*. 7(12): 758-767.

Al-Sbou, Yazeed A., Jamal N. Bani Salameh, and Hani Q. Al-Zoubi (2012). A New Quality of Service Measurement Technique Using Neural Networks. *International Review on Computers and Software (IRECOS)*.

Bani Salameh, Jamal N., Al-Zoubi, Hani Q., Al-Sbou, Yazeed A. (2012). A novel Multicast Routing Protocol for Ad Hoc Networks. *European Journal of Scientific Research*.

Al-Sbou, Yazeed A. (2010). Fuzzy Logic Estimation System of Quality of Service for Multimedia Transmission. *International Journal of Quality of Service Issues in Networking (IJQoSIN)*, 1(1).

- **Conference Publications**

Ayyash, M. A., and Al-Sbou, Yazeed A. (2013). An Integrated Quality of Service Module to Support a Cross-Layer Framework in Cognitive Radio Networks. *The 8<sup>th</sup> Jordanian International Electrical and Electronics Engineering Conference (JIEEEEC 2013)*. 16<sup>th</sup> -18<sup>th</sup> April 2013, Amman, Jordan.

Ayyash, M. A., and Al-Sbou, Yazeed A. (2012). Towards a Cross-Layer Framework for Quality of Service Provisioning in Cognitive Radio Networks. *5<sup>th</sup> International Conference on Communications, Computers and Applications (MIC-CCA2012)*, Istanbul, Turkey, October, 2012.

Al-Sbou, Yazeed A., Saatchi, R., Al-Khayatt, S., Strachan, R., Ayyash, M., Saraireh M. (2008). A Novel Quality of Service Assessment of Multimedia Traffic over Wireless Ad Hoc Networks. *The 1<sup>st</sup> IEEE International Workshop on Future Multimedia Networking (IEEE FMN'08) in The Second International Conference on Next Generation Mobile Applications, Services, and Technologies (IEEE NGMAST'08)*. 479-484. September 17<sup>th</sup> - 18<sup>th</sup> 2008. Cardiff, Wales, UK.

Ayyash, M. A., Alzoubi, K. M., Al-Sbou, Yazeed A. (2006). Preemptive Quality of Service Infrastructure for Wireless Mobile Ad Hoc Networks. *The International Conference on Wireless Communications and Mobile Computing (IWCMC'06)*, 707-712. Vancouver, British Columbia, Canada, ISBN:1-59593-306-9

Al-Sbou, Yazeed A., Saatchi, R., Al-Khayatt, S. and Strachan, R. (2006). Quality of Service Assessment of Multimedia Traffic over Wireless Ad Hoc Networks. *The Fifth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP2006)*, 129-133. University of Patras, Patras, Greece. ISBN: 960-89282-0-6.

Al-Sbou, Yazeed A., Saatchi, R., Al-Khayatt, S. and Strachan, R. (2005). A Comparative Study of Sampling Methods for the Measurement of QoS Parameters. *The Postgraduate Research Conference on Electronics, Photonics, Communications & Networks, and Computing Science (PREP'05)*, 38-39. University of Lancaster, Lancaster, UK.

Al-Sbou, Yazeed A., Saatchi, R., Al-Khayatt, S. and Strachan, R. (2005). Sampling Methods Evaluation for the Measurement of QoS Parameters. *The 1<sup>st</sup> International Conference on Internet Technologies and Applications (ITA05)*, University of Wales, NEWI, Wrexham, UK. ISBN: 0-94688-132-4.

Al-Sbou, Yazeed A., Saatchi, R., Al-Khayatt, S. and Strachan, R. (2005). Estimation of the Distributions of the QoS Parameters Using Sampled Passive Measurements Techniques. *The 2<sup>nd</sup> International Conference on E-Business and Telecommunication Networks (ICETE05)*, (1) 324-329. Reading, UK. ISBN: 972-8865-33-3.

### **Journals Reviews and Conferences TPC**

- Elsevier Journal of Electrical and Computer Engineering
- Springer Journal of Ambient Intelligence and Humanized Computing
- Jordan Journal of Electrical Engineering (JJEE).
- Mosharakah Journals and Conferences.
- The 2010 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2010), Penang, Malaysia, October, 2010.
- The 2011 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2011), Langkawi, Malaysia, September, 2011.
- The 2011 IEEE Wireless Communications and Networking Conference (IEEE WCNC 2011), Quntana-Roo, Mexico, March, 2011.

- Mosharaka International Conference on Communications and Signal Processing (MIC-CSP2012), Barcelona, Spain, April, 2012.
- The 2012 IEEE Colloquium on Humanities, Science and Engineering Research, Kota Kinabalu, Malaysia, December, 2012.
- The 2012 IEEE Student Conference on Research and Development, Penang, Malaysia, December, 2012.
- The 2013 IEEE Business Engineering and Industrial Applications Colloquium (IEEE BEIAC 2013), Langkawi, Malaysia, April, 2013.
- Workshop Cloud Computing Issues and Trends, Science and Information Conference, London, UK, October, 2013.
- The 1<sup>st</sup> International Conference on Computer Science and Engineering (MIC-Computing 2013), Amman, Jordan, August, 2013.
- The 2014 IEEE Colloquium on Humanities, Science and Engineering (CHUSER), Penang, Malaysia, April, 2014.
- The 2014 International Colloquium of Art and Design Education Research (i-cader2014), Penang, Malaysia, April, 2014.
- The first International Postgraduate Colloquium on Science and Technology (IPCOST), Universiti Teknologi MARA, Penang, Malaysia April, 2014.
- The 2014 International Conference on Computational Intelligence and Communication Networks (CICN 2014), Bhopal, India, November, 2014.
- The 2014 International Symposium on Regional Art, Design and Humanities (ISRADH 2014), Sutera Beach Resort, Kota Kinabalu, Malaysia from 28<sup>th</sup> September to 1<sup>st</sup> October, 2014.
- The 2014 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014), Kota Kinabalu, Malaysia, 28<sup>th</sup> September to 1<sup>st</sup> October, 2014.
- Irish Conference on Artificial intelligence and Cognitive Science (AICS 2016), University College Dublin, Dublin, 20<sup>th</sup> - 21<sup>st</sup> September, 2016.
- The 2017 International Conference on Computing Intelligence and Information System (CIIS2017) Nanjing, China, April 21-23, 2017.
- The 2017 International Conference on Wireless Communications, Networking and Applications, shenzhen, China, 7<sup>th</sup>– 9<sup>th</sup> June 2017,

- The 2017 International Conference on Electronic Industry and Automation [EIA2017], Suzhou, China, June 23rd-25th, 2017.
- The 2017 International Conference on Cloud Technology and Communication Engineering [CTCE2017] Guilin, China, August 18th-20th, 2017.
- The 3<sup>rd</sup> Annual 2017 International Conference on Electronics, Electrical Engineering, Guangzhou, Guangdong, China, September 8<sup>th</sup> -10<sup>th</sup>, 2017.

### **Activities Attended**

*Higher Education Cooperation Day, National Erasmus+ office – Jordan, Amman, 26<sup>th</sup> October, 2016.*

*The 9th National Technology Parade, Al-Ahliyya Amman University, Amman, Jordan, 4th May, 2016.*

*The 8th National Technology Parade, Jordan University, Amman, Jordan, 30<sup>th</sup> April, 2015.*

*Higher Education Cooperation Day, National Erasmus+ office – Jordan, Amman, 8<sup>th</sup> December, 2014.*

*The 7th National Technology Parade, Yarmok University, Irbid, Jordan, 1st April, 2014.*

*The 8<sup>th</sup> Jordanian International Electrical and Electronics Engineering Conference (JIEEEEC 2013). 16<sup>th</sup> -18<sup>th</sup> April 2013, Amman, Jordan.*

*The 5<sup>th</sup> International Conference on Communications, Computers and Applications (MIC-CCA2012), Istanbul, Turkey, October, 2012.*

*The 1<sup>st</sup> IEEE International Workshop on Future Multimedia Networking (IEEE FMN'08) in the Second International Conference on Next Generation Mobile Applications, Services, and Technologies (IEEE NGMAST'08). September 17<sup>th</sup> - 18<sup>th</sup>, 2008. Cardiff, Wales, UK.*

*The Fifth International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP2006), 2006, University of Patras, Patras, Greece.*

*The Postgraduate Research Conference on Electronics, Photonics, Communications & Networks, and Computing Science (PREP'05), 2005, University of Lancaster, Lancaster, UK.*

*The 1<sup>st</sup> International Conference on Internet Technologies and Applications (ITA05), 2005, University of Wales, NEWI, Wrexham, UK.*

*The 2<sup>nd</sup> International Conference on E-Business and Telecommunication Networks (ICETEO, 2005, Reading, UK.*

### **Projects**

- Supervision of undergraduate student's graduation projects.
- Quality of Service (QoS) assessment and analysis of computer networks.
- Speech Signal Processing: 'End-points Detection of Arabic Speech Based on End-Words Properties.'
- Microcomputer Architecture Using 8600 Microprocessor and Interfacing with the Real World.
- Design and Operation of Traffic Lights Using Microcomputer by Assembly Language.
- Design and Implementation of many Electronic circuits of practical applications.

### **Teaching Activities (Taught Courses)**

- Simulation and Modeling for Computer Engineering Department students.
- Simulation and Modeling for Industrial Engineering Department students.
- Computer Organization and Design
- Computer Networks
- Microprocessor Design
- Computer Skills I
- Computer Skills II
- Electronic Circuits and Devices
- Automatic Control
- Digital Signal Processing
- Antennas and Wave Propagation
- Microwave Engineering
- Electric Circuits
- Computer Networks Lab
- Antennas Lab
- Telephony Lab
- Electric Circuit Lab
- Computer Interface Lab
- Computer Architecture Lab
- Microprocessor Lab
- Digital Logic Lab
- Electronics Lab
- Graduation Projects

### **Computer Skills**

- Software Packages: Matlab, Orcad, Mathematica, Network Simulator-2 (ns-2), and Electronic Workbench (EWB).
- Operating Systems: Windows (All versions).



### *Languages*

- Arabic: native language
- English: excellent commands.

### *Associations*

- Member, the Jordanian Engineers Association since 1997.

### *References*

- Prof. Hussien Al-Majali, Dean of the Faculty of Engineering, Mutah University, Jordan, [halmajali@mutah.edu.jo](mailto:halmajali@mutah.edu.jo)
- Prof. Omer Maaitah, Mutah University, Jordan, [maaitah\\_noor@hotmail.com](mailto:maaitah_noor@hotmail.com)
- Dr. Samir Alkhayatt, Sheffield Hallam University, United Kingdom, [s.alkhayatt@shu.ac.uk](mailto:s.alkhayatt@shu.ac.uk)