



Saeed A. Salah (PhD)

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General Profile

Saeed Salah is an Assistant Professor of Computer Science, with extensive knowledge of Computer and Communication Networks. He received the B.Sc. degree in Electrical Engineering/ Minor in Computer Engineering from Al-Najah National University in 2003, his M.Sc. degree in Computer Science from Al-Quds University in 2009, and his PhD degree from the Department of Signal Theory, Telematics and Communications of the University of Granada in 2015. His research interests mainly include network management and configurations, event correlation, network architecture, network security, fault tolerance, information management, and routing protocols.

Last published work

- **S. Salah**, G. Maciá Fernández and J. E. Díaz-Verdejo, “A Model-based Survey of Alerts Correlation Techniques”, *Computer Networks (Elsevier)*, Vol. 57, pp. 2718-2732, 2013.
- **S. Salah**, G. Maciá Fernández, J. E. Díaz-Verdejo and Leovigildo Sánchez-Casado, “A Model for Incident Tickets Correlation in Network Management”, *Journal of Network and Systems Management (Springer)*, Vol. 24, Issue 1, pp 57-91, 2015.
- R. Zaghaf, F. Al-Younis and **S. Salah**, “Performance Evaluation of Routing Protocols in Wireless Sensor Networks: A Comparative Study”, In *Proceedings of the 5th International Conference on Informatics and Applications (ICIA2016)*, Takamatsu, Japan, 14-16 November 2016.
- R. Zaghaf, K. Thabatah and **S. Salah**, “Towards a Smart Intersection Using Traffic Load Balancing Algorithm”, In *Proceedings of the IEEE International Computing Conference*, London, UK, 18-20 July 2017.
- R. Zaghaf, **S. Salah** and F. Al-Younis, “A Survey of Four Routing Protocols for Wireless Sensor Networks”, *International Journal of Digital Information and Wireless Communications – IJDIWC*, Vol. 7, No. 1, pp: 49-59, 2017.
- A. Alhazmi, G. Maciá Fernández, J. Camacho, and **S. Salah**, “Torrent Forensics: Are your Files Being Shared in the BitTorrent Network?”, In *Proceedings of the 2nd International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2017)*, Barcelona, Spain, 12-16 November 2017.
- M. Jamal, R. Zaghaf and **S. Salah**, “Adaptation of InfiniBand Model in Enhancing the QoS Parameters in Mobile AdHoc Routing Protocols”, In *Proceedings of the 9th IEEE/IFIP International Conference on New Technologies, Mobility & Security*, Paris, France, 26-28 February 2018.
- R. Zaghaf, **S. Salah** and N. Jabali, “Extending AES with DH Key-Exchange to Enhance VoIP Encryption in Mobile Networks”, In *Proceedings of the 6th*

International Conference on Information Systems and Technologies, Naples, Italy, 27 - 29 March 2018.

- **S. Salah**, G. Maciá Fernández and J. E. Díaz-Verdejo, “Fusing Information from Tickets and Alerts to Improve the Incident Resolution Process”, *Information Fusion* (Elsevier), Vol. 45, pp: 38-52 (2018).
- M. Mahmoud, R. Zaghal and **S. Salah**, “Efficient Data Encryption and Compression Algorithm in Cloud Computing”, in progress (2018).
- R. Zaghal, S. Salah, and S. Al-Mashayekh, “An Efficient Web-Based Application Tool for Video Segmentation based on a New Version Control Mechanism”, in progress (2018).

Core Competencies

- An innovative and knowledgeable professional having four years of professional experience as a lecturer at the Department of Computer Science in Al-Quds University.
- Proficient in developing new lessons and activities to expand learning opportunities.
- Having an in-depth knowledge of the latest IT technologies and trends.
- Extensive participation on committees and extra-curricular activities.
- Having excellent communication and interpersonal skills in written and verbal both.
- Excellent knowledge of the subject and has great practical knowledge.
- Strong analytical, logical, and mathematical skills.
- Self-motivated and excellent team player.
- Excellent research skills.

Employment History

Assistant Professor at Al-Quds University, Jerusalem (2009 – current) [www.alquds.edu]

- Handling the tasks of teaching several core courses in networking such as: Computer Networks I with Lab, Computer Networks II with Lab, Special Topics in Networking, Communication Systems, Signals and Systems, Electric Circuits, Network Administration using UNIX, Networking Programming, among other related courses.
- Placing of networking concepts such as network applications, technologies and services.
- Responsible for designing IT courses as preparation curriculum and course requirements.
- Managing the task of establishing the structure and content of the discussion sections and grading policies.
- Responsible for providing guidance to students to help complete the ongoing graduation projects.
- Supervising several master students for completing their master theses and graduation projects.
- Member of the Faculty of Science and Technology Council.
- Member of the Quality Assurance Unit at Al-Quds University.
- Member of the committee of the Computer Science Department.
- Performing other duties as assigned.

Cooperate and Network Engineer at Al-Quds University (2003 – 2009)

- Handling the tasks of PC hardware and software maintenance, and network troubleshooting.

- Responsible of organizing and managing Computer Science Department Labs.
- Handling the tasks of teaching several labs for some courses.
- CISCO Trainer at SKITCE centre: Teaching the four core courses of networking which are provided by CISCO Network Academy they are routing and switching essentials, routing protocols, scaling networks, and switched networks.
- Performing other duties as assigned.

Education

Ph.D., Information and Communication Technologies, University of Granada (2011-2015).

- *Thesis title*: “Business Driven Alert Correlation in Network Management Environments”
- *Supervisors*: Professors Gabriel Macia-Fernandez & Jesús E. Díaz Verdejo
- *Evaluation*: Excellent

M.Sc., Computer Science, Al-Quds University (2004-2008).

- *M.Sc. project title*: “C-OLSR Extension to Reduce Control Overhead in Very Large Dense Ad Hoc Networks”
- *Relevant courses*: Advanced course in computer networks and communications, advanced course in parallel processing, advanced course in distributed systems and course in Multi-agent systems, among other related courses
- *Evaluation*: (V. Good)

B.Sc., Electrical & Computer Engineering, Al-Najah National University (1998-2003).

- *B.Sc. graduation project*: “Smart ID Caller”.
- *Relevant courses*: several core courses in Mathematics, several core courses in Physics, Differential Equations, Partial Differential Equations, Electric Circuits I, Electric Circuits II, Digital Circuits, Signals and Systems, Numerical Analysis, Linear Algebra, Communication Systems, and Computer Networks, among other related topics.
- *Evaluation*: (V. Good)

Tawjehi - Scientific Stream, General Examination Board, Bidy’s Secondary School (1996-1998).

- Evaluation: (Excellent)

Training Courses

- Certificate course in writing research articles using Latex, University of Granada.
- Certificate course in Logical Thinking, Al-Quds University.
- Certificate course in First Aid and Safety Requirements in the labs, Al-Quds University.
- Certificate course in Networking Design and Hardware Maintenance (CCND-HW), New Delhi, India.
- Certificate course in Network Operating Systems, Win2k, Win2003 server, Solaris, Linux, Novell. SKITCE Center, Al-Quds University.
- Certificate course in PC Hardware and Software, Cisco Instructor Training Course. SKITCE Center, Al-Quds University.

- Certificate course in CCNA, Cisco Instructor Training Course, SKITCE Center, Al-Quds University.
- Certificate course in Computer Technical (A+), Amra Training Center, Nablus.

Teaching Courses

- Introduction to Computer Science
- Computer Skills
- Programming Fundamentals
- Informatics I
- Informatics II
- Discrete Mathematics
- Computer Networks
- Automata Theory
- Advanced Course in Computer Networks and Communications
- Special Topics in Networking
- Network Administration Using Unix
- Mobile Computing
- Communication Systems
- Electric Circuits
- Network Programming
- Signals and Systems
- Signals and Systems Laboratory using MATLAB
- Graduation project I Supervision
- Graduation project II Supervision
- Master Thesis Supervision
- Advanced Computer Networks (Master level)

LANGUAGES

- Arabic: mother language.
- English: Excellent in reading and writing, V. Good in speaking.
- Spanish: Good in reading, writing and speaking.

Workshops

- Development Methodology for Co-Design in FPGA, Al-Najah National University, Nablus, 2009.
- DAAD Scholar – Summer Course in Wireless Communications -New Challenges and Research Issues, Ilmenau Technical University, Germany, 2008.
- Videoconferencing Training Workshop, Internet2 Commons. The Ohio State University, Columbus, Ohio, USA, 2007.
- Didactic Methodologies and Tools, Dual Studies program, funded by the German Government through GIZ Program, the Oasis Hotel in Jericho, Palestine, 2015.
- The Network Simulation Package (NS2), Hebron Polytechnic University, Palestine, 2016.
- Visiting Researcher - Research Centre for Information and Communications Technologies of the University of Granada (CITIC-UGR). Zamala Fellowship program funded by Bank of Palestine and Taawan Organization, 2017.

- Arduino Trainer: Training IT Teachers in Schools, Faculty of Science, 2/2 – 22/2 2016.
- Several workshops related to the Quality of Service in Teaching, and Developing Academic Programs, 2015-current.
- Visiting Lecturer, University of Minho - Portugal, Erasmus+ Academic Staff Exchange Program, 18-28 June 2018.

Editorial Board Membership

- Member of the International Journal of Frontiers of Mechatronical Engineering
- Member of the International Journal of Computer Hardware Engineering
- Reviewer for the IEEE Journal of Transactions on Network and Service Management
- Reviewer for the 6th World Conference on Information Systems and Technologies

References

- **Jesús Esteban Díaz Verdejo**, Full Professor in Telematics Engineering, Department of Signal Theory, Telematics and Communications, University of Granada: jedv@ugr.es, +34 958242304.
- **Gabriel Maciá Fernández**, Associate Professor in Communication Engineering, Department of Signal Theory, Telematics and Communications, University of Granada: gmacia@ugr.es, +34 958241000, ext. 20048.
- **Raid Zaghal**, Assistant Professor of Computer Science, Head of the Computer Science Department, Al-Quds University, zaghal@staff.alquds.edu, +9705011121.

Technical Skills

- Windows Server administration
- Unix administration
- Network administration using Unix
- Network Simulation Package (NS2) programming
- FPGA programming
- C, C++, Java, JavaScript, Python, and HTML programming
- Net Logo programming
- Latex programming
- Advanced CISCO router/switch configuration
- Routing protocols configuration: BGP, OSPF, EIGRP, and RIP
- LAN/WLAN, WAN, ADSL, Frame Relay, and PPP technologies
- Network infrastructure design and troubleshooting
- Matlab and Simulink programming
- Weka: Data Mining and machine learning software
- Electronic Workbench and PSpice: Circuits design
- Arduino IDE