

Curriculum Vitae

Feda Abdulrahman AlShahwan

Head of Electronic Engineering Technology Department

College of Technological Studies

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Education

- B.Sc., Computer Engineering, Kuwait University, Kuwait, 1992.
- M.Sc., Computer Software Engineering, Kuwait University, Kuwait, 2000
- Ph.D., Mobile Web Services, University of Surrey, United Kingdom, 2012

Academic experience

- Head of Technological Electronic Engineering Department 2021- now
- Vice head of Technological Electronic Engineering Department 2016-2019
- PAAET, Electronics Engineering Technology, Associate Professor, 2022 – Now.
- PAAET, Electronics Engineering Technology, Assistant Professor, 2012 – 2022.
- Part time as Adjunct Faculty in GUST 2019-2020
- University of Surrey, Researcher, Ph.D. Scholarship, 2008 – 2012.
- PAAET, Electronics Engineering Technology, Computer Section Assistant Teacher, 2004 – 2008.
- PAAET, Telecommunication and Navigation Institute, Computer Department, Trainer, 1997– 2004.

Non-academic experience

- Kuwait University, System Analyst, 1993 – 1997

- Ministry of Education, Computer Engineer, 1992 – 1993

Certifications

PhD – Computer Engineer

Current membership

IEEE board member

KSE

Clawar

IET

YP chair

Honors and awards

- Award of distinguished from College of Technology.
- Award of recognition from IEEE
- Award of distinguished author for publishing in Q1 journals
- Award of Excellence oral presentation certificate,9/2017
- Award of distinguished work on achieving the ABET accreditation for the communication engineering technology.
- Award of distinguished supervisor on students “Smart Shoes/Walk & Charge” project
- Award of Engineers Excellence, Kuwait Engineering Society, 6/2016
- Award of participating in Women Committee, PAAET Faculty Association 2015
- Award of participating in the twentieth exhibition of the scientific associations, Deanship of activity and student care in PAAET 2015,2016

Service activities

- Providing training courses (Web Page design, C++ programming Language, Visual basic) in the Measurement Evaluation & Professional Development Center
- Providing training courses (Web Page design, ICDL, Microsoft Power Point, Visual basic) in the Centre for Community Services and Continuing Education at Kuwait
- Teaching in GUST 2019
- Forming Graduates Of the Last Decades (GOLD) Affinity Group of IEEE in Kuwait section
- Presenting some seminars as international guest speakers in the activities of Women's Engineering Society (WES)
- Holding STEP and MD presentations in College of Technology and American University of Kuwait (AUK)
- Organizing Technological Week and an exhibition 2015
- Organizing Second Cultural Week and an exhibition 2016
- Organizing Robotic workshop with the assistant of Sabah Al-Ahmad Center for Giftedness and Creativity (SACGC) and LEGO
- Reviewer on the technical program committee for International Conference on Internet and Web Applications and Services
- Reviewer on the technical program committee for International Symposium on Control, Automation, Industrial Informatics and Smart Grid, August 24-25, 2013, Mysore, India.
- Reviewer for Research Committee in PAAET
- Member, Evaluation head of petroleum department committee in PAAET
- Member, Subscription renewal work team for Libranet in PAAET, 27/6/2013, 3/7/2013.
- Judges for Sixth Kuwait eContent award that was held by KFAS 2016.
- Participate in organizing the eighth IEEE GCC Conference and exhibition that was held in Oman in 2015.
- Participating in organizing the IEEE 5G Symposium.
- Participate in setting up the Bachelor Computer Engineering Program for our college.
- Participate in developing the teaching courses in the department.
- Reviewer in several international conferences and journals.
- Coordinates with The Center for Measurement & Evaluation in PAAET for holding a workshop 2017.
- Organizing and holding third technological health symposium and exhibition 5-7/March/2019.
- Attending Second Communication symposium in Telecommunication and Navigation Institute.

- Invited as a speaker to the “4th Annual Global Congress of Knowledge Economy 2017” that is held by BIT Congress INC. in 19-21/9/2017 in Qingdao, China.
- Attending 10th International Conference on Women Leaders in Science, Technology and Engineering 23-25/10/2017 in the Arab Organizations Headquarter Conduct Regulations
- Attending “Kuwaiti Women Symposium” that is held in 31/10/2017 by Kuwait Engineering Society
- Attending “البرنامج التأهيلي لإعداد مدرب الكهروني محترف” that is held by RedSOFT in 05-08/February/2017 in PAAET, Kuwait
- Visit the Young Public Authority in 6/12/2018 and present an introductory lecture about The SYP Congress
- Presenting a paper in “National Organizations Towards Supporting Technical teaching in Kuwait Conference” that is held by UNESCO in 30-31/1/2019 in GUST, Kuwait
- Attending “International Conference on 4th Industrial Revolution 2019” that is held by Bahrain Society of Engineers in 19-21/2/2019 in Kingdom of Bahrain.
- Attending “First regional development leadership in the digital world Conference” that is held by RedSOFT in 25-27/March/2019 in Arab Fund for Economic and Social Development, Kuwait
- Attending the مؤتمر جوهرة المرأة بين التمكين والإعلام Conference 11-12/3/2019 in JACC, Kuwait
- Chair of the second Students and Young Professionals Congress and exhibition 19-20/4/2019
- Holding and organizing the 10th IEEE GCC Conference and Women Symposium and exhibitions in Kuwait 21-23/2019
- Setting up 12 workshops, 4 keynote speeches, 6 session panels and 6 competitions during the SYP congress
- Participate in the first and second college project competitions.
- Edit a booklet containing the vision, objective, activities, and other materials that concerns the congress.
- Work as an external opponent for a thesis of title” A Framework for Mobile Web of Things” for Mr. Mohan Liyanage in University of Tartu
- Participate in the third PAAET poster symposium and winning distinguished award for publishing in Q1 Journals.
- Participate in the twentieth and twenty fourth scientific societies exhibition 2018/2019
- Participate in celebration Kuwait National and Liberation day in the College of technological studies.
- Invited as a speaker for the 4th Annual Global Congress of knowledge economy 2017.
- Attending the Cybersecurity Education and Research Conference (CERC 2019) in 11-12/11/2019 at KCST, Kuwait

- Attending the Gulf Food Safety Conference (CONEX) in 13-14/11/2019 at Radisson Blue, Kuwait
- Invited as an external expert for a workshop organized by ISESCO in Oman on 3-4/12/2019
- Participate in the organizing committee of Computer Applications & Technological Solutions Conference: Covid 19 from 12-14/March/2022 in GUST, Kuwait
- Attending “1344th international conference on artificial intelligence and soft computing, ICAISC” that is held by Academics World in 22-23/August/2022 in Madrid, Spain

Publications and presentations

Posters:

- AlShahwan, F.; “Framework for Adaptive Provisioning, Execution and Migration of Light Weight Partitioned Mobile Web Services”, “The third scientific publication and poster day”, held by “Project on the role of PAAET in enhancing research”, March 23, 2016, Kuwait.
- Almeshal A., Altowaim T., AlShahwan F., Alzuabi R., Alansari A., Alkandri A., Alotaibi A., “Performance of an HSDBC Optimised Hybrid Fuzzy Logic Controller for a Path Tracking Unicycle Robot, “The second scientific publication and poster day”, held by “Project on the role of PAAET in enhancing research”, March 25, 2015, Kuwait.

Book Chapter:

- AlShahwan, F.; “Adaptive Security Framework in Internet of Things (IoT) for Providing Mobile Cloud Computing”, in “Mobile Computing - Technology and Applications”, ISBN: 978-1-78923-223-3, 22/3/2018.

Conference and Symposium Papers:

- The 4th Cybersecurity Education and Research Conference CERC22, October 25-26,2022- KCST, Kuwait
- ‘1344th International Academic Conference on Engineering, Technology and Innovation’, August 22-23,2022 – Madrid- Spain

- 28th IEEE International Conference on Electronics Circuits and Systems (ICECS 2021), Speaker at WICAS Panel Event Empowering Women in Technical Roles, 28 Nov – 1 Dec ,2021 – Dubai, UAE
- AlShahwan, F; Workshop for trainers to develop courses that meet distance learning standards “واقع برامج وأساليب تكوين المكونين في مجال إعداد مساقات تعليمية تستجيب لهندسة التكوين” ISESSCO , 3-4/12/2019, Oman
- AlShahwan, F; Workshop for trainers to develop courses that meet distance learning standards “أمثلة على أحدث الأساليب التربوية العالمية في مجال تكوين المكونين في مجال إعداد مساقات تعليمية” ISESSCO , 3-4/12/2019, Oman
- AlShahwan, F; “آليات وسبل تمكين المرأة ببرامج ومسارات التعليم المهني والفني بدولة الكويت”, National Organizations Towards Supporting Technical teaching in Kuwait Conference”, UNESCO, 30-31/1/2019 – GUST, Kuwait.
- Douzi, S., AlShahwan, F., Lemoudden, M. and ElOuahidi, B.; “Hybrid Email Spam Detection Model Using Artificial Intelligence”, 5th International Conference on Artificial Intelligence (ICOAI 2018), December 21-23, 2018- Paris, France.
- AlShahwan, F.; “Critical data and security level of Internet of Things (IoT), with emphasis on data structures”, International Conference on Cloud Big Data Computing (ICBDC 2017), pp. 27-32, September 18-20, 2017 - London, UK.
- AlShahwan, F. and Faisal, M.; “Analyzing HTTP and COAP for IoT”, 4th International Conference Advances in Computing, Communication, and Information Technology (CCIT), March 17-18, 2016 - Birmingham, UK.
- Faisal. M., Bourahma. A. and AlShahwan. F.; "Toward a Taxonomy of Sensor- Supported Learning", International Conference on Communications, Computer Science and Information Technology (ICCSIT2016), pp.2-7, March 12-14, 2016 – Dubai, UAE.
- AlMousa. E. and AlShahwan. F.; "Performance Enhancement in 5G Mobile Network Processing", 4th International Conference on Software and Information (ICSIE2015), May 4-5, 2015 – Dubai, UAE.
- AlShahwan, F. and Faisal, M.; "Mobile Cloud Computing for Providing Complex Mobile Web Service", 2nd IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (IEEE MobileCloud 2014), April 8-11, 2014 - Oxford, UK.
- AlShahwan, F. and Carrez, F; "Distributed Mechanisms for Providing Complex Mobile Web Service", 2013 19th European Wireless Conference (EW 2013), April 2013.
- AlShahwan, F.; Moessner, K. and Carrez, F.; “Distributing Resource Intensive Mobile Web Services,” 2011 7th International Conference on Innovations in Information Technology (IIT), pp.41-46, 25-27 April 2011.
- AlShahwan, F.; Moessner, K. and Carrez, F.; “Distribute Provision Strategies of RESTful Based Mobile Web Services,” 2011 IEEE Global Telecommunications Conference (GLOBECOM 2011), pp.1-6, 5-9 Dec. 2011.
- AlShahwan, F.; Moessner, K. and Carrez, F.; “Providing Light Weight Distributed Web Services from Mobile Hosts,” 2011 IEEE International Conference on Web Services (ICWS), pp.652-659, 4-9 July 2011.

- AlShahwan, F.; “ Adaptive Mobile Web Services”, Symposium held by University of Surrey; June 2011, Surrey, UK.
- AlShahwan, F. and Moessner, K.,” Providing SOAP Web Services and RESTful Web Services from Mobile Hosts,” 2010 5th International Conference on Internet and Web Applications and Services (ICIW), pp.174-179, 9-15 May 2010.

Journal Articles:

- Marwan, M., AlShahwan, F., Afoudi, Y., Temghart, A. and Lazar, M. , “Leveraging artificial intelligence and mutual authentication to optimize content caching in edge data centers”, Journal of King Saud University, ISSN: 1319-1578(Online), vol 35, no 9, pages 101742, October 2023.
- Ishtaiwi, A., Alshahwan, F., Jamal, N., Hadi, W. and AbuArqoub, M., “A Dynamic Clause Specific Initial Weight Assignment for Solving Satisfiability Problems Using Local Search. Algorithms”, Algorithms, ISSN 1999-4893 (Online), vol 14, no 1, pages 3-14, January 2021.
- Douzi, S., AlShahwan, F., Lemoudden, M and El Ouahidi, B, “Hybrid Email Spam Detection Model Using Artificial Intelligence”, International Journal of Machine Learning and Computing, ISSN: 2010-3700 (Online), vol 10, no 2, pages 316–322, February 2020.
- Marwan, M., Ait Temghart, A., Sifou, F. and AlShahwan, F., “A Cloud Solution for Securing Medical Image Storage”, Journal of Information and Organizational Sciences, ISSN: 1846-9418(Online),1846-3312 (Printed), vol 44, no 1, pages 113-139, June 2020.
- Faisal M., Bourahma A. and AlShahwan F.,” Towards A Reference Model for Sensor-Supported Learning Systems”, Journal of King Saud University - Computer and Information Sciences, ISSN 1319-1578 (online), July 2019.
- Sifou F, AlShahwan F., Marwan M. and Hammouch A., “Implementing policy rules in attributes based access control with XACML within a cloud enabled IoT”, Journal of Communications, ISSN:1796-2021 (Online), 2374-4367 (Print), vol. 14, no.10, accepted for publication
- Marwan M., AlShahwan F., Sifou F., Kartit A., and Ouahmane H., "Improving the Security of Cloud-based Medical Image Storage," Engineering Letters, ISSN: 1816-0948 (online), 1816-093X (printed), vol. 27, no.1, pp175-193, February 2019.
- AlShahwan F. and Faisal M.; “Security Building Blocks in Internet of Things (IoT) for Providing Adaptive Mobile Web Services,” Broad Research in Artificial Intelligence and Neuroscience (BRAIN), ISSN: 2067-3957, vol. 10, no. 1, pp 30-42, February 2019.
- AlShahwan F., AlShamrani M., Amer A.; “Dynamic Novel Cross-Layer Performance Enhancement Approach for SIP over OLSR,” Journal of IEEE Access, ISSN: 2169-3536 (online), DOI: 10.1109/ACCESS.2018.2880917, vol. 6, pp: 71947 – 71964, November 2018.

- Karaata, M.; Hamdan, A.; Faisal, M. and AlShahwan, F., "Fault Detection for Message Passing Systems," *Journal of Circuits, Systems and Computers*, ISSN: 0218-1266 (printed), ISSN: 1793-6454 (online), vol. 27, no. 5, pp. 1-26, September 2017.
- Ansa, G.; Cruickshank, H.; Sun, Z.; Ansa, G.; and AlShahwan, F., "Combating Intra-Region DoS Attacks in Delay Tolerant Networks using Energy-Efficient Mechanisms", *Asian Journal of Computer and Information Systems (AJCIS)*, ISSN: 2321-5658 (online), vol. 4, no. 5, August 2016.
- Alshamrani, M.; Cruickshank, H.; Sun, Z.; Ansa, G.; and AlShahwan, F., "SIP Signaling Implementations and Performance Enhancement over MANET: A Survey" *International Journal of Advanced Computer Science and Applications (IJACSA)*, ISSN: 2158-107X (printed), ISSN: 2156-5570 (online), DOI: 10.14569/IJACSA.2016.070529, vol. 7, no. 5, pp.191-204, 2016.
- AlMousa, E.; AlShahwan, F and Alhajri, R., "The Deployment of the Future Mobile Network", *Advances in Computer Science: an International Journal (ACSIIJ)*, ISSN: 2322-5157, vol. 5, no. 2, pp.7-13, March 2016
- AlShahwan, F.; Faisal, M. and Ansa, G., "Security framework for RESTful mobile cloud computing Web services", *Journal of Ambient Intelligence and Humanized Computing (JAIHC)*, ISSN: 1868-5137 (printed), ISSN: 1868-5145 (online), DOI: 10.1007/s12652-015-0308-5, vol. 7, no. 5, pp.1-11, August 2015
- AlShahwan, F. and AlMousa, E. "Survey on Mobile Web Service Providers", *International Journal of Computer and Electronics Research (IJCER)*, ISSN: 2278-5795, vol. 4, no. 5, pp.097-109, November 2015
- AlShahwan, F., Faisal, M., Karaata, M. and AlShamrani, M., "RESTful-Based Bi-level Distribution Framework for Context-Based Mobile Web Service Provision," *Journal of Software*. ISSN: 1796-217X, doi: 10.7763/jsw.10.3.260-287, vol.10, no. 3; pp. 260-287;2015
- Almeshal A., Altowaim T., AlShahwan F., Alzuabi R., Alansari A., Alkandri A., Alotaibi A., "Performance of an HSDBC Optimised Hybrid Fuzzy Logic Controller for a Path Tracking Unicycle Robot", *International Journal of Current Engineering and Technology*, ISSN: 2277 – 4106 (online), ISSN: 2347 – 5161(printed), vol. 5, no.1, pp 85-89,2015
- AlShahwan, F, Faisal, M., Almeshal A. and Alselmi, T., "Fragmentation, Orchestration and Federation of Complex resource-based Mobile Web Services", *IT CoNvergence PRACTice INPRA*, ISSN: 2288-0860, vol. 3, no.1, pp 51-78, March, 2015
- AlShahwan, F., Moessner, K. and Carrez, F.; "Providing and Evaluating the Mobile Web Service Distribution Mechanisms Using Fuzzy Logic," *Journal of Software*, vol. 7, no. 7, pp.1473-1487, 2012.
- AlShahwan, F., Moessner, K. and Carrez, F.; "Evaluation of Distributed SOAP and RESTful Mobile Web Services", *International Journal on Advances in Networks and Services*, vol. 3, no. 3&4, pp.447-461, 2010.

Professional development activities

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