Dr. Fahd Abdulsalam Alhaidari

Assistant Professor Computer Science & Engineering

Personal Data

Nationality | Yemeni

Department | CIS

Official IAU Email | faalhaidari@iau.edu.sa

Office Phone No. | +966-13-3332009

Language Proficiency

Language	Read	Write	Speak
Arabic	Native	Native	Native
English	Fluent	Fluent	Fluent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2013	**Ph.D** in Computer Science and Engineering	King Fahd University of Petroleum and Minerals, KFUPM	Dhahran, Saudi Arabia
2007	**M.S.** degree in Computer Science	King Fahd University of Petroleum and Minerals, KFUPM	Dhahran, Saudi Arabia
1999	**B.S.** degree in Computer Science	Mousl University	Mousl, Iraq

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Modeling and Mitigation of Economic Denial of Sustainability (Edos) Attacks in Cloud Computing
Master	Impact of Bursty Traffic on the Performance of Popular Interrupt Handling Schemes for Gigabit-Network Hosts
Bachelor	Enhanced device driver for modern printers (OS).

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Chair of Department	Computer Science Department in National University - Riyadh Branch, Saudi Arabia.	2001 – 2003

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Professor	Department of Computer Information Systems	College of Computer Science and Information Technology	Imam Abdulrahman Bin Faisal (IAU)	2013– Present
Lecturer	Department of information & Computer Science (ICS)	College of Computer Science and Engineering	King Fahd University of Petroleum and Minerals, KFUPM	2007-2012
Teaching Assistant	Department of Computer Science	College of Computer Science	Dhamar University	2000 - 2002
Teaching Assistant	Department of Computer Science	College of Computer Science	Science and Technology University (STU)- Taiz branch, Yemen.	1999 - 2001

Scientific Achievements: **Published Refereed Scientific Researches** (In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	**Fahd A. Alhaidari**, Ebtesam J. Alqahtani	"Securing Communication Between Fog Computing and IoT Using Constrained Application Protocol (CoAP): A Survey"	Journal of Communications, Journal of Communications (1796-2021), JCM, vol. 15(1), pp. 14-30, 2020.
2	**Fahd A. Alhaidari** ∗, Saleh A. Dossary, Wadha M. Al-Mattar, Mahi M. Kamaleldin, Areej H. Abed, Atheer A. Alshaikhhussain, Heba K. Motawei, and Nadeen S. Alamoudi	Comparison of Different Edge Detectors on General Public Images and Two-Dimensional Seismic Data	Journal of Computational and Theoretical Nanoscience Vol. 16, pp. 1–12, **2019**
3	Kiran Sultan, **Fahd Alhaidari**	Relay Selection in Dual-Hop Underlay Relay-Assisted Cognitive Radio Networks: A Comprehensive Survey	Journal of Computational and Theoretical Nanoscience (1546-1955), vol. 16,pp. 1-13, 2019
4	Dhiaa Musleh, Rashad Ahmed, Atta ur Rahman, **Fahd Al-Haidari**	"A NOVEL APPROACH TO ARABIC KEYPHRASE EXTRACTION"	ICIC Express Letters, Application (2185-2766), vol. 10, issue 10, pp. 875-884, October 2019
5	**Fahd Alhaidari**, Atta ur Rahman	"Telecommunication Networks in Disaster Management: A Review"	Journal of Communications ((1796-2021)), vol. 14 (6), pp. 432-447, 2019
	Muhammad Zeeshan Muzaffar, Ijaz Mansoor Qureshi, Atta-ur-Rahman, **Fahd Alhaidari**, Mohammed Aftab Khan, Kiran Sultan	Compressed Sensing for Security and Payload Enhancement in Digital Audio Steganography	Journal of Information Hiding and Multimedia Signal Processing (2073-4212), vol. 9 (6), pp. 1506-1517,2018
	Atta-ur-Rahman, **Fahd Alhaidari**	Querying RDF Data	Journal of Theoretical and Applied Information Technology (1992-8645), vol. 96 (22), pp. 7599-7614, 2018.
	Atta-ur-Rahman, **Fahd Alhaidari**	The Digital Library and the Archiving System for Educational Institutes	Pakistan Journal of Information Management and Libraries (2409-7562), vol. 20, pp. 94-117, 2018
	Atta-ur-Rahman, **Fahd Alhaidari**	AN ELECTRONIC DATA INTERCHANGE FRAMEWORK FOR EDUCATIONAL INSTITUTES	ICIC Express Letters (1881-803X), vol. 13(9), pp. 831-840, 2019
6	**F Al-Haidari**, K Salah, M Sqalli, SM Buhari, Arabian	"Performance Modeling and Analysis of the EDoS-Shield Mitigation"	Journal for Science and Engineering, vol. 42 (2), pp. 793-804, 2017

#	Name of Investigator(s)	Research Title	Journal / Publication
7	**Al-Haidari, F**., Sqalli, M., and Salah, K.	" Evaluation of the Impact of EDoS Attacks Against Cloud Computing Services",	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol. 40(3) , MARCH 2015.
8	K. Salah, **F. Haidari**, A. Bahjat, A. Mana	"Implementation and experimental evaluation of a simple packet rate estimator"	International Journal of Electronics and Communications (AEU), vol. 64, Issue 9, September 2010,
9	Salah, K., Hamodi, J., Baig, Z., and **Al-Haidari, F**.	"SIP VoIP Deployment over Hospitality Networks,"	Journal of Internet Technology, vol. 14(1), pp. 31-44, 2012,
10	Khaled Salah1, Jamil Hamodi2, Zubair A. Baig, **Fahd Al-Haidari**	"Video-on-Demand (VoD) deployment over hospitality networks",	International Journal of Network Management, John Wiley, JUL 2011.
11	K. Salah, **F. Al-Haidar**i, M. H. Omar, A. Chaudhry,	"Statistical Analysis of H.264 Video Frame Size Distribution",	International Journal of IET Communications IET Commun.2011
12	Salah, K. and **AlHaidari F.**	"Performance Evaluation and Comparison of Four Network Rate Estimators,"	International Journal of Electronics and Communications, Elsevier Science, Vol. 64, No. 11, November 2010, pp. 1015-1023, 2010.
13	Adnan Gutub, **Fahd Al-Haidari**, Khalid Al-Kahsah, and Jameel Hamodi	, "e-Text Watermarking: Utilizing 'Kashida' Extensions in Arabic Language Electronic Writing",	Journal of Emerging Technologies in Web Intelligence (JETWI), 2010.
14	Salah, K., El-Badawi, K., and **Haidari, F**.,	"Performance Analysis and Comparison of Interrupt-Handling Schemes in Gigabit Networks,"	International Journal of Computer Communications", Elsevier Science, Vol. 30(17) (2007), pp. 3425-3441, 2007.

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	**Fahd Al-Haidari**, Ezaz Mohammed AL-Dahasi,	New Approach to Determine DDoS Attack Patterns on SCADA System Using Machine Learning	IEEE ,2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, 2019.
2	**Fahd Alhaidari**, Taghreed Balharith, Eyman AL-Yahyan,	Comparative Analysis for Task Scheduling Algorithms on Cloud Computing	IEEE ,2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, 2019.
3	Shikah Alsunaidi, **Fahd Al-Haidari**	A Survey of Consensus Algorithms for Blockchain Technology	IEEE ,2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, 2019
4	Alia .M and **F. Alhaidari**	Machine Learning Techniques to Detect DDoS Attacks on VANET System: A Survey	IEEE, 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, Saudi Arabia, 2019
5	Taghreed Balharith, **Fahd Al-Haidari**,	Round Robin Scheduling Algorithm in CPU and Cloud Computing: A review,	IEEE, 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, Saudi Arabia, 2019
6	**Alhaidari F.A**., Atta-ur-Rahman, Alghamdi A., Dash S.	"Motion Detection in Digital Video Recording Format with Static Background"	Springer Nature Switzerland AG 2019, Proceedings of the 1st International Conference on Smart Innovation, Ergonomics and Applied Human Factors (SEAHF). SEAHF 2019.
7	EJ Alqahtani, FH Alshamrani, HF Syed, **FA Alhaidari**,	Survey on Algorithms and Techniques for Indoor Navigation Systems	2018 21st Saudi Computer Society National Computer Conference (NCC), Riyadh, 2018.
8	**F. Al-Haidari** et al. ,	Impact of CPU Utilization Thresholds and Scaling Size on Autoscaling Cloud Resources	2013 IEEE 5th International Conference on Cloud Computing Technology and Science, Bristol, 2013.

9	**Al-Haidari, F**., Sqalli, M., and Salah, K	Enhanced EDoS-Shield for Mitigating EDoS Attacks Originating from Spoofed IP Addresses	TRUSTCOM '12 Proceedings of the 2012 IEEE 11th International Conference on Trust, Security and Privacy in Computing and Communications, pp. 1167-1174, 2012.
10	Sqalli, M., **Al-Haidari, F**., and Salah, K.,	EDoS Shield: A Two-Step Mitigation Technique against EDoS Attacks in Cloud Computing	In the proceedings of the 4th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2011), Melbourne, Australia, December 5-7, 2011
11	**Al-Haidari F**., Sqalli M., Salah, K., and Hamodi J.,	"An Entropy-based Countermeasure against Intelligent DoS Attacks Targeting Firewalls",	In the proceedings of the IEEE International Symposium on Policies for Distributed Systems and Networks (IEEE POLICY 2009), London, UK, July 20-22, 2009, pp. 41-44.
12	Salah, Khaled and **Haidari, F**	On the Performance of a Simple Packet Rate Estimator	Proceedings of the IEEE 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08) Doha, Qatar. (2008) .
13	**Al-Haidari, Fahd** and Gutub, Adnan and Al-Kahsah, Khalid and Hamodi, Jameel	Improving Security and Capacity for Arabic Text Steganography Using 'Kashida' Extensions	In: The 7th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-2009), 10-13 May 2009, Rabat, Morocco. (2009) .

Completed Research Projects

#	Name of Investigator(s)	Research Title	Report Date
1	**Fahd Alhaidari**, Ilyas A. Salih, Abdlrhman M. Salem, Mahmoud O. Fares, Ahmed S. Bokir, Osama Al-Qahtani	Automatic Channel Detection Using DNN on 2D Seismic Data	June 2018
2	**Fahd Alhaidari**, Mahi M. Kamaleldin, Areej H. Abed, Atheer A. Alshiakhhussain, Heba K. Motawei, Nadeen S. Al.Amoudi	Automatic seismic fault detection	June 2017
3	**Fahd Alhaidari**, Zakria Bachir, Ahmed Shawka, Mazin Fahmi, Abdulraof Omar, Ahmed Abdullah	Educational Indoor Navigation Application	June 2017
4	**Fahd Alhaidari**, Haneen , Hussa Al-Baadi, Lulu Al-Rbah, Manal Al-Amri , Najla Al-Dossari	Pharmex Application	June 2015
5	**Fahd Alhaidari**, Areej Alghamdi, Amal Alamri, Hind Alamri, Mneera Alqahtani, Fatima Alsaeed	Trip Station System	June 2014
6	**Fahd Alhaidari**, Aisha AlTamimi, Kholuod Ahmad, Sara AlAgili, Wassan AlLuhaidan, Yasmeen AlMesewel	Plans and Projects Management System for Grant Institutions	June 2014
7	**Fahd Alhaidari**, Amani Alogaiel, Deam Nasser A Alwohaibi, Maryam Sami Alessa, Monirah Salman H Alkharraa, Maha Mohammed Alsubaie	Smart Class Application	June 2013

Current Researches

#	Research Title	Name of Investigator(s)
1	Protecting Against Zero-Day Malware Using Machine Learning and Sandboxing Analysis Technique	**Fahd Alhaidari**, Nouran Salah , Maram Alsafi, Haneen Alharbi, Majd Alawami, Reem Aljindan
2	Location-Based Notification Application	**Fahd Alhaidari**, Mohammed Alarmani, Nawaf Alqarni, Emad Alrizqi, Fawaz Alghamdi, Talal Alqhtani
3	A Novel Machine Learning-Based Technique to Detect Spam Email Attacks	**Fahd Alhaidari,** Faizah Husain Al-Qahtani

| 4 | Utilizing Generative Adversarial Networks (GANs) for Finger Vein Biometrics' Spoofing Attack Detection | **Fahd Alhaidari, Njoud AlMansour** |
| 5 | A Simulation Work for Generating a Novel Dataset to Detect DDoS Attacks on VANET Systems | **Fahd A. Alhaidari**[*], Alia Mohammed Alrehan |

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	IEEE ,2019 International Conference on Computer and Information Sciences (ICCIS)	Sakaka, Saudi Arabia, 2019.	presenter

Honors and Awards

1. Received a teaching position from Ministry of Education in Yemen as an award for achieving advance level in high school certificate. (out of 30 in the Republic)
2. Received full scholarships from Ministry of Higher Education in Yemen to complete BS. degree in Mosul University in 1995.
3. Award from Ministry of Education in Iraq for achieving the 1st rank in an operating system comprehensive exam done by the ministry for all the computer science students in Iraq.
4. Award from Mosul University for achieving the 3rd rank over the University.
5. Award from Department of computer science in Mosul University for achieving the 1st rank out of 60 students in the Department.
6. Best Teaching Award from CCSIT college for three years (six semesters) since 2014.

Date	Honors and awards
1994	Received a teaching position from Ministry of Education in Yemen as an award for achieving advance level in high school certificate. (out of 30 in the Republic)
1995	Received full scholarships from Ministry of Higher Education in Yemen to complete BS. degree in Mosul University.
1998	Award from Ministry of Education in Iraq for achieving the 1st rank in an operating system comprehensive exam done by the ministry for all the computer science students in Iraq
1999	Award from Mosul University for achieving the 3rd rank over the University
1999	Award from Department of computer science in Mosul University for achieving the 1st rank out of 60 students in the Department.
1999	**Second Class Honor,** Bachelor Degree (Mosul University)
2014-2017	Best Teaching Award from CCSIT college for three years (six semesters) since 2014

Teaching Activities

#	Course/Rotation Title	No./Code	Extent of Contribution
1	C language, KFUPM	ICS 103	Lecturer
2	Project Proposal Fall 2014- 2019, IAU.	CIS 511	Supervising graduation project
3	Project Implementation Spring 2014- 2019, IAU.	CIS 521	Supervising graduation project
4	Communication Network Fund, Fall 2014-2016	CIS 315	Course Coordinator, Teaching Male students
5	Network Protocols & E-Commerce, Spring 2014-2016	CIS325	Course Coordinator, Teaching Male students
6	Project Proposal Fall 2019, IAU.	CYS 511	Supervising graduation project
7	Logic and Proof Techniques, Fall 2014-2016, IAU.	CS 401	Course Coordinator, lecturing and responsible of all lectures for three whole semesters.
8	Comp Data Security & Privacy, Spring 2016, IAU.	CIS 425	Responsible of all lectures for one whole semester.

9	Decision Support & Expert System, Fall 2014, Spring 2016	CIS 516	Course Coordinator and lectures for Fall 2014, lecturing for three semesters.
10	Mathematical Foundations of Information Security, Fall 2016-2019	CYS 402	Course Coordinator, lecturing and responsible of all lectures for four whole semesters.
11	Selected Topics in IS, Spring 2013	CIS 522	Course Coordinator, lecturing and responsible of all lectures for the whole semester.
12	Applied Cryptography, Spring 2016-2018	CYS 507	Course Coordinator, lecturing and responsible of all lectures for three whole semesters.
13	Data Mining and Warehousing, Fall 2017	CIS 517	Teaching lectures and Labs for one semester
14	Professional Responsibility, Summer 2013	CIS 413	Summer classes, Course Coordinator and lecturer
15	Network Security, Spring 2017-2018	CYS 406	Course Coordinator, lecturing and responsible of all lectures for four whole semesters.
16	Advanced Algorithms Analysis, Master course, Fall 2017, Fall 2019	CS 613	Teaching Master course theory
17	Cloud Computing, master course, Spring 2017	CS 625	Teaching Master course theory
18	Advanced Network Security (Lecture), master, Fall 2018	CS 632	Teaching Master course theory
19	Ethical Hacking, Fall 2019	CYS 529	Course Coordinator, lecturing and responsible of all lectures for one semester.
20	Course Practical (Co-op) Training	CIS 444	Supervising Summer course.

Administrative Responsibilities, Committee and Community Service

Committee Membership

#	From	To	Position	Organization
1	2018	Present	Chair	Information Technology Unit, CCSIT, IAU
2	2018	Present	Member	Cyber Security Curriculum Committee, CCSIT, IAU
3	2018	Present	Member	CIS postgraduate Committee, CCSIT, IAU
3	2017	2018	Member	Academic Accreditation Committee, CCSIT, IAU
4	2017	2018	Member	Strategic Planning Committee, CCSIT, IAU
5	2015	2018	Chair	Knowledge Group of Information System
6	2015	2018	Member	CIS Curriculum Committee, CCSIT, IAU
7	2015	2016	Member	ABET accreditation Committee, CCSIT, IAU
8	2015	2016	Member	Academic development Unit, CCSIT, IAU
9	2014	2017	Chair	CCSIT new Building establishment unit, Labs establishment
10	2013	2017	Chair	Teaching and learning Committee, CCSIT, IAU
11	2013	2017	Chair	CCSIT Textbooks and Library unit, IAU

Workshops/Conferences Attended

- IEEE ,2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, April,2019.
- Workshop on ABET Visit Awareness Session, CCSIT - Academic Accreditation Unit, 12/November,2019
- Communication Skills as a Domain of Learning in National Qualification Framework (NQF) (1439/12/30). A workshop organized by Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Integrating Leadership Skills in Academic Curriculum (1439/07/24). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Interactive Teaching and Students Engagement (1439/05/24). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

- 21st Century Skills (1439/06/25). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Motivating Students & Learning (1439/06/11). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Facilitating Metacognition in the Classroom (1439/03/02). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Microteaching (1439/02/03). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Mentor Training Program, three days intensive training program (31 May, 2016) organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Using Multiple Choice Questions (MCQs) to test Higher-Order Thinking Skills (1440/01/14). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Developing a Plan for Program Assessment (1440/01/21). A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Checklist of Activities Towards NCAAA Accreditation - (1439/06/26). A workshop organized by the Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Avoiding common Teaching mistakes, A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Learning outcomes for programs and courses (29/3/2016), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Constructing Multiple choice, Open-ended items for HOTS &RUBRICS for multiple instructors (6/12/2016), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Course portfolio (8/6/2013), A workshop organized by the Deanship of Quality and Academic accreditation, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Students learning outcomes (11/3/2014), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
- Programs and courses learning outcomes (1/4/2014), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Providing a constructive feedback (9/12/2016), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Assessing Projects and Labs (28/2/2017), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- Enhance learning through the use of technology (26/1/2016), A workshop organized by the Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.

Membership of Scientific and Professional Societies and Organizations

- Member of the Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- ACM Professional Membership.