

Dr. Nadia AL-Rousan, PhD in Computer Engineering- Artificial Intelligence
Classified as one of the best ten women working in technology in the world in category of Artificial Intelligence-2022
WomenTech Global AI Inclusion Award
Ambassador for WomenTeck network
Assistant professor in Computer Engineering- Computer Engineering Department- German Jordanian University

Google Scholar: [Nadia AL-Rousan - Google Scholar](#)

LinkedIn: [\(14\) Nadia AL-Rousan | LinkedIn](#)

Research Gate: [\(13\) N. Al-Rousan \(researchgate.net\)](#)

Scopus: [Al-Rousan, Nadia - Author details - Scopus Preview](#)

COVER LETTER

I am actively working in research and academia, particularly in the fields of Artificial Intelligence, Networks, Cybersecurity, Data Science, Computer Engineering and Information Technology. My educational background and expertise span a wide array of skills, including Artificial Intelligence, data encryption, data concealment, Computer networks, information security, data science, computer engineering, information systems, and renewable energy.

As an accomplished assistant professor, I bring a wealth of practical and theoretical knowledge to the table, with a focus on security, networks, cybersecurity, information security, and artificial intelligence. Over the past twelve years, I have dedicated my career to teaching and research across various esteemed institutions, including German Jordanian University, Sohar University, Istanbul Gelisim University, Jordan University of Science and Technology (JUST), Taibah University, Misurata University, and Nizwa University. My teaching portfolio includes a diverse range of courses such as computer networks, information technology, artificial intelligence, machine learning, advanced neural networks, deep learning and expert systems.

This extensive experience has greatly shaped my teaching methodology and deepened my knowledge in these fields. Moreover, it has provided me with the resilience and determination to pursue my Ph.D. degree. In 2018, I successfully earned my Ph.D. degree from Universiti Sains Malaysia (USM), with a focus on computer engineering as my general field and Computational Intelligence as my major field of study. Computational Intelligence stands as one of the most cutting-edge subjects today, with applicability across various scientific domains. In recognition of my outstanding Ph.D. research and contributions to the field of computer engineering, USM awarded me an appreciation certificate. I successfully defended my thesis without any revisions, completing my studies in the

shortest timeframe, as documented by USM records (27 months). Additionally, I received the prestigious Sanggar Sanjung Award from USM in recognition of my scholarly works and publications in 2019. In 2022, I was honored to be chosen as one of the best ten women worldwide recognized for their contributions to AI inclusion in their research by the WomenTech Global community-USA. I was selected as Ambassador for WomenTech Community. In 2023, I was nominated for the China Talent Program to receive China Government and Industrial Sector fund, and I proudly received the Asia Outstanding Research Award in recognition of my remarkable research achievements.

Furthermore, I hold the distinction of being a CISCO-trained trainer and have taken on the responsibility of supervising Final Year Project (FYP) courses in my previous roles. I am also currently supervising several master's students, gaining valuable experience in teaching at the master's level, which further enriches my academic background. My extensive research contributions encompass various domains. I'm focusing on implementing Artificial Intelligence solutions to solve different real-time problems. Therefore, I received several national and international research grants to conduct my research, and I was the principle investigator for most of these research.

In conclusion, I firmly believe in my capabilities and remain committed to staying at the forefront of new developments in the ever-evolving field of computer science and engineering accompany other fields of study.

PERSONAL INFORMATION

First Name	Nadia
Middle Name	Adnan
Family's Name	AL-Rousan
Date of Birth	June 13, 1986
Place of Birth	Irbid
Nationality	Jordanian
Gender	Female
Marital Status	Married

PERMANENT ADDRESS

City	Irbid
Country	Jordan
Mobile phone	
E-mail	nadia.rousan@yahoo.com / nadia.alrousan@gnu.edu.jo

EDUCATION

- 2016-2018

Level	PhD in Computer Engineering – Artificial Intelligence
University	University Sains Malaysia (2018) With Appreciation Certificate and Award

- 2008-2011 :

Level	Master in Computer Engineering
	Jordan University of Science and Technology (JUST)

- 2004-2008 :

Level	BSc in Communication and Software Engineering.
University	Al-Balqa' Applied University (2008)

LANGUAGES

English Language	Excellent in Writing, Speaking, Reading
Arabic Language	Native

Awards

- Asia Outstanding Research Award-2023
- Nominated for China Talent Research Program-2023
- Classified as one of the best ten women working in AI-Inclusion in the world-2022.
- WomenTech- Global AI Inclusion Award-2021
- Sanggar Sanjung Award for Research-2019
- Graduate on Time Certificate Award for Fastest students in Finishing Their Theses with no Corrections-2018

EXPERIENCE

Place	Work Description	Period Time
	Employee Grade: Assistant Professor Computer Engineering Department School of Electrical Engineering and Information Technology	
Sohar University	Assistant Professor In Artificial Intelligence	2022-2023

Istanbul Gelisim University	Assistant Professor Artificial Intelligence Research Assistant Professor	August 26,2019- January 2022
University of Nizwa	Lecturer Teaching _ different courses: Advanced Computer Network, Final Year Project Course, Decision support systems, Introduction to computers in business. Networks Security, Cryptography.	August 30, 2015- September 1, 2016
Misurata University	Lecturer Teaching _ different courses, Networks Performance Evaluation, Advanced Computer Networks, Network Security, Cryptography, Wireless Networks, Optical communication and Computer Drawing	November 11, 2013 –August 9, 2015
Taibah University Kingdom of Saudi Arabia	Lecturer • Teaching _ different courses, Wired and Wireless networks, Computer Security, Digital Design, C++, Geographical Information Systems, Computer Drawing, and Information security	March 07, 2012 - August 01, 2013
Jordan University of Science and Technology, Irbid, Jordan	Lecturer • Teaching _ different courses in Visual Basic, C++, and Object Oriented	September, 2011 – January, 2012
Jordan University of Science and Technology, Irbid, Jordan	Lab Supervisor • Helping in CISCO Lab teaching • Prepared datasheets for networks and security labs • teaching practical Wired and Wireless networks labs • Applied simulation and emulation techniques on	January 2009 to May 2011

	networks and wireless networks and security	
Jordan TV, Amman, Jordan	<p>Communication Engineer, Programmer</p> <ul style="list-style-type: none"> • Managed maintenance, repair & troubleshooting of communication equipment including AVD, Microwave, and Computers. • Supervise the most popular of satellite station in the Middle East. 	2008

Journal Revised:

- Development a secure method to prevent cache pollution attack.
- Secure Online/Offline Mobile Payment Framework Based on Logistic Map and Users Activities
- Sensitive Image Encryption Algorithms Based on Rossler Attractor.
- Digital Image Encryption using Chaotic Block and Linear Independent Concept.
- Intelligent Solar Energy Harvesting Wireless Sensor Network
- Estimation of Orientation Angles for Solar Photovoltaics using Integration of Multiple Layer Perceptron and Quadratic Polynomial Function with Least Square Residuals
- Prediction Hourly, Daily, Monthly and Yearly Total Global Solar Radiation Based on Different Multilayer Perceptron Strategies: The Case Study of Seoul, South Korea
- Nadia AL-Rousan, Hazem AL-Najjar, “Evaluation of MERCK, MODERNA, PFIZER/BIONTECH, and JANSSEN COVID-19 Vaccines on Vaccinated People Metadata Analysis”, The Journal of Pathology, 2022, under review.
- Hazem AL-Najjar, **Nadia AL-Rousan**, Ismail El-Haty, “Time Series Modeling of Air Pollution and Its Association with Season and Climate Variables In Istanbul”, Turkey, The Risk Journal, 2022, under review.
- **Nadia AL-Rousan**, Hazem AL-Najjar, “Prediction Hourly, Daily, Monthly and Yearly Total Global Solar Radiation Using Deep Neural Network Strategies: The Case Study of Seoul, South Korea”, The Arabian Journal of Science and Engineering, 2022, under review.
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Journal Publications:

- **Nadia Al-Rousan**, D Al-Najjar, H Al-Najjar, Assessing the Impact of Syrian Refugee Influx on the Jordanian Stock Exchange Market, RISKS, 2023. (ISI/Scopus Q1).
- HF Assous, H AL-Najjar, **Nadia Al-Rousan**, D AL-Najjar, Developing a Sustainable Machine Learning Model to Predict Crop Yield in the Gulf Countries, 2023, (Scopus Q1).
- Dania Al-Najjar, Hamzeh Assous, Hazem Al-Najjar, **Nadia Al-Rousan**, “Ramadan effect and indices movement estimation: a case study from eight Arab countries”. Journal of Islamic Marketing, 2023 (ISI/Scopus Q1).
- Dana AL-Najjar, Hazem AL-Najjar, **Nadia AL-Rousan**, Evaluation of the prediction of CoVID-19 recovered and unrecovered cases using symptoms and patient’s meta data based on support vector machine, neural network, CHAID and QUEST Models, European Review for Medical and Pharmacological Sciences, 2021. (ISI/Scopus Q1)
- Dana AL-Najjar, **Nadia Al-Rousan**, Hazem AL-Najjar, Machine learning to develop credit card customer churn prediction, Journal of Theoretical and Applied Electronic Commerce Research, 2022. (Scopus Q1).
- D Al-Najjar, H Al-Najjar, **Nadia Al-Rousan**, Long-Term General Index Prediction Based On Feature Selection And Search Methods: Amman Stock Exchange Market, Economy of Regions, 2022.
- D Al-Najjar, H Al-Najjar, **Nadia Al-Rousan**, HF Assous, Developing machine learning techniques to investigate the impact of air quality indices on tadawul exchange index, Complexity, 2022. (ISI/Scopus Q1).
- **Nadia AL-Rousan**, Nor Ashidi Mat Isa, Mohd Khairunaz, Hazem AL-Najjar, Integration of Logistic Regression and Multi-Layer Perceptron for Single and Dual Axis Solar Tracking Systems, International Journal of Intelligent Systems, 2021. (ISI/Scopus Q1)
- **Nadia AL-Rousan**, Hazem AL-Najjar, A Comparative Assessment of predicting Hourly global solar radiation using nonlinear autoregressive Exogenous (NARX) neural network and Seasonal Auto-regressive integrated moving average (SARIMA), Arabian Journal for Science and Engineering, 2021. (ISI/Scopus-Q1)
- Hazem AL-Najjar, Sahel Alhady, Junita Mohamad-Saleh, **Nadia AL-Rousan**, Scheduling of workflow jobs based on twostep clustering and lowest job weight. Concurrency and Computation: Practice and Experience, 2021. (ISI/Scopus-Q2)
- **Nadia AL-Rousan**, Hazem AL-Najjar, Osama Al-Omari, Assessment of Rules, Trees, Meta Functions, Lazy and Function Prediction Methods for hourly global solar radiation: The Case Study of Jordan. Sustainable Energy Technologies and Assessments, 2021. (ISI/Scopus Q1)
- **Nadia AL-Rousan**, Hazem AL-Najjar, Optimizing the Performance of MLP and SVR Predictors Based on Logical ORing and Experimental Ranking Equation, Journal of the Chinese Institute of Engineers, accepted in Vol. 44(2021). (ISI/Scopus Q2)
- Dana AL-Najjar, Hazem AL-Najjar, **Nadia AL-Rousan**, CoVID-19 symptoms analysis of deceased and recovered cases using Chi-square test, Eur Rev Med Pharmacol Sci, 2020. (ISI/Scopus Q1)
- **Nadia AL-Rousan**, Nor Ashidi Mat Isa, Mohd Khairunaz, Correlation analysis

- and MLP/CMLP to investigate of optimum variables for intelligent single and dual axis solar tracking systems, *International Journal of Energy Research*, Early View, 2020. (ISI/Scopus Q1)
- **Nadia AL-Rousan**, Hazem AL-Najjar, Is Visiting Qum Spread Coronavirus in the Middle East?, *European Review for Medical and Pharmacological Sciences*, 2020. (ISI/Scopus Q1)
 - **Nadia AL-Rousan**, Nor Ashidi Mat Isa, Mohd Khairunaz, Efficient Single and Dual Axis Solar Tracking System Controllers Based on Adaptive Neural Fuzzy Inference System, *king saudi engineering and sciences journal*, 2020. (ISI/Scopus Q1)
 - **Nadia AL-Rousan**, Hazem AL-Najjar, Data Analysis of Coronavirus CoVID-19 Epidemic in South Korea Based on Recovered and Death Cases, *Medical Virology*, 2020. (ISI/Scopus Q1)
 - **Nadia AL-Rousan**, Hazem AL-Najjar, The impact of Chinese Government Plans on Coronavirus CoVID-19 Spreading and its Association With Weather Variables in 30 Chinese Provinces: Investigation, *European Review for Medical and Pharmacological Sciences*, 2020. (ISI/Scopus Q1)
 - **Nadia AL-Rousan**, Hazem AL-Najjar, Nowcasting and Forecasting the Spreading of Novel Coronavirus 2019-nCoV and its Association With Weather Variables in 30 Chinese Provinces: A Case Study. *The Lancet Preprint Server*, 2020. (ISI/Scopus Q1)
 - Hazem AL-Najjr, **Nadia AL-Rousan**, Are Italy and Iran really suffer from COVID-19 Epidemic? Controversial Study. *European Review for Medical and Pharmacological Sciences*, 2020. (ISI/Scopus Q1)
 - Hazem AL-Najjr, **Nadia AL-Rousan**, A Classifier Prediction Model to Predict the Status of Coronavirus CoVID-19 Patients in South Korea. *European Review for Medical and Pharmacological Sciences*, 2020. (ISI/Scopus Q1)
 - Hazem AL-Najjar, **Nadia Al-Rousan**, Hamzeh Fathullah Alsous, Dania Al-Najjar, Dana Al-Najjar, Impact of CoVID-19 Pandemic Virus on Group Eight Countries' Financial Indices Based on Artificial Neural Network, *the Journal of Chinese Economic and Foreign Trade Studies*, 2020. (ISI/Scopus Q1)
 - Hamzeh Fathullah Alsous, **Nadia Al-Rousan**, Dania Al-Najjar, Hazem AL-Najjar. Can international markets indices estimate TASI's movements? ARIMA model. *Journal of Open Innovation: Technology, Market, and Complexity*, 2020. (Scopus Q1)
 - **Nadia Al-Rousan**, Nor ashidi Mat Isa, Mohd Khairunaz Mat Desa, Advances in solar photovoltaic systems, *Renewable and sustainable Energy reviews*, Elsevier, 2018. (ISI/Scopus Q1)
 - Hazem Al-Najjar and **Nadia Al-Rousan**, “SSDLP: Sharing Secret Data between Leader and Participant,” *Chinese Journal of Engineering*, vol. 2014, Article ID 736750, 7 pages, 2014. (ISSN: 2314-8063).
 - **Nadia AL-Rousan** and Hazem Al-Najjar “Defending Mobile Phones from Proximity Malware Based on Clustering Approach,” *International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE)* Volume 2, Issue 11, November 2013 (ISSN: 2277 – 9043).

- **Nadia AL-Rousan and Hazem Al-Najjar** “The Network Coding based on Marked Packets”, International Journal of Computer Applications (ISSN 0975 – 8887), September 2013.
- Hazem Al-najjar and **Nadia Al-rousan**” New Chaotic Information Security Algorithms” International Journal of Computer Applications (ISSN 0975 – 8887), July 2013.
- **Nadia Al-rousan** and Hazem Al-Najjar “Digital Image Encryption Algorithm Based on Chaotic Block and Pixel Mapping Table.” International Journal of Scientific and Engineering Research (IJSER) - (ISSN 2229-5518), Volume 4, Issue 6, June 2013.
- Hazem Al-Najjar and **Nadia Al-rousan** “Data Hiding in Encrypted Image Based on Multi-Chaotic Approach” International Journal of Scientific and Engineering Research (IJSER), 2013 - (ISSN 2229-5518) Volume 4, Issue 6, June 2013.

Conference Proceedings Publications:

- **Nadia AL-Rousan, AI and the future, Jubilee Excellence Center Conference for Technology in Education, 2019, Jordan.**
- **AI Inclusions, WomenTech Community Conference, 2022, USA.**
- **Nadia AL-Rousan, Mohammad AL Rousan and Adnan Shariah.** “A Fuzzy Logic Model of a Tracking System for Solar Panels in Northern Jordan Based on Experimental Data” in ICRERA 2012 held in Japan. .
- **Nadia Al-Rousan, Mohammad Al-Rousan ,Adnan Shareiah and Hazem Al-Najjar** “*Choosing the Efficient Tracking Method for Real Time Tracking System in Jordan and it's neighbors to Get Maximum Gained Power Based on Experimental Data,*”in ICRERA 2012 held in Japan.
- Hazem Al-Najjar, **Nadia Al-Rousan** “Trusted Network Coding Framework,” in *ICON 2012 held in Singapore, 2012.*
- Fahed Awad, Omar Banimehem, **Nadia Al-Rousan:** The Potential of Using Network Coding with Geographical Forwarding Routing for Wireless Multimedia Sensor Networks. CIT 2011: 9-14, held in Cyprus.

Current Research (UNDER REVIEW) :

- Developing an Intelligent Greenhouse
- Developing New Intelligent Controller for Wireless Sensor Network
- New routing protocol using network coding
- Predict the hidden secured information through networks
- Using Artificial Neural Network to Predict Leukemia for images of blood cells samples.
- Predicting Earthquakes in Turkey.
- Developing a product for Agriculture usage.
- Predicting economics and finance status in different countries based on several events.

- Water and environmental research.

Research Grants:

- Saudi Government Research Grant to Study Tadawl Index Market.2023.
- King Faisal University, 2023, Research Grant for Food Security in Gulf countries.
- King Faisal University, 2022. Research Grant for studying if the climate change and pollution can affect stock market performance? and Evidence from Saudi Stock market.
- Yok, Istanbul-Turkey, 2022. Research Grant for studying the optimum artificial intelligence models that used to control Solar Energy Systems.
- Tubitak, Turkey. 2021-2023, Research grant to implement secure financial system and predict the stock markets in different countries based on international events.
- YOK. 2019-2022, Research grant for data analysis and prediction models related to COVID-19.
- Istanbul Gelisim University, 2019-2022, Research grant to conduct research in computer engineering, artificial intelligence, and cybersecurity.
- Jordan University of science and Technology, 2009. Worked in CISCO networks and security lab. Prepared datasheets for several labs and enhance the configuration methods with secured solutions in virtual networks.
- Jordan University of science and Technology, 2010. Grant to implement a practical project to predict the optimum tilt and orientation angles in northern Jordan based on intelligent techniques and implement this project in desert to ensure about its capability and performance.
- Misurata University, 2013. To establish new department of cybersecurity and networks for bachelor degree level in Misurata University 2013-2015.
- Nizwa University, 2015. FYP using Urduino Uno to make secured mosque system and secured parking system.

JOURNAL REVIEW (Q1 JOURNALS)

- Expert Systems with Application
- IEEE Open Journal of Engineering
- Journal of Computer Security
- king Saud Engineering and Sciences Journal
- Journal of Supercomputing.
- Photovoltaics Journal.
- Neurocomputing Journal.
- Renewable and Sustainable Energy Review Journal

- Sustainable Cities and Societies
- PLOS One journal.

PROFESSIONAL EXPERIENCE

- I was the AACSB accreditation team leader in Sohar university, 2023.
- I was in Strategic Plan Committee at Sohar University 2023.
- I represented Faculty of Business in GEDIX Exhibition Muscat and Sohar in 2022.
- Working as volunteer to train women entrepreneurs, housewives and children on the new technologies.
- Speaker in different occasions and events.
- I prepared the practical internal network lab datasheets in Jordan University of Science and Technology (Jordan).
- I prepared the practical network lab in Misurata University (Libya), and I wrote the courses syllabus, materials, and lab's datasheets for different courses namely, Advanced computer network course, Network security course, Network performance evaluation course, Information security, Optical communication course, Cybersecurity course, Computer network lab, Network security lab, and Network performance evaluation lab.
- I was CISCO (ICND) trainer for faculty members and students in Misurata University (Libya) and Misurata University (Oman).
- I was trainer for (PIC microcontroller) and (Arduino Uno microcontroller) programing in Misurata University (Libya) and Misurata University (Oman).
- Key Note Speaker in Artificial Intelligence, Third Jubilee Conference in Excellence in Education, 2019.
- Invited to be keynote speaker in intelligent systems in Cambridge University, 2019.
- Invited to be editorial board in several international journals.
- Presenter and speaker in intelligent models, security threats, attacks, and smart energy energy systems.

PROFFESIONAL SERVICES

- AACSB accreditation team leader in Sohar university, 2023.
- Nominated as Scientific Committee, upcoming 6th Teaching and Learning Conference, Sohar University, 2022.
- Represented Business College in Sohar University, GEDIX Exhibition, Muscat and Sohar 2022.
- Member in Research Committee, Sohar University.

- Member Committee in DBA program, Sohar University.
- Member in recruitment committee, Saudi Arabia and Libya.
- Member organization committee for 1st National Conference on Information System Trends (Cloud Computing), Oman.
- Trainer for Hour of Code event for both faculty members and students, Libya.
- Trainer for Startup Weekend event, Libya.
- Member committee to check other faculties' exams and quizzes questions, Misurata and Oman.
- Revising the courses syllabus committee, Saudi Arabia, Misurata, Oman.
- Final Year Project (FYP) evaluation committee, Misurata, Oman.
- Connecting Network and Communications labs committee.
- Inserting the hidden students' marks committee.
- Competition on Information Systems and Technology (CIST) –Organizer.
- Reviewer for several international journals and conferences: Journal of Intelligent Systems, Ad Hoc & Sensor Wireless Networks journal, Wireless Communications and Mobile Computing journal, American Journal of Applied Sciences, Journal of Computer Science and Security, ETRI Journal, PECON 2014, IEEE Student Conference on Research & Development 2015 (SCORED), ICCSCE 2016 and other international journals and conferences.

MASTER THESIS SUPERVISION

Noor Qasim, master thesis in Electrical Engineering, Istanbul Gelisim University, "An efficient Model for Partial Discharge Fault Detection using Convolutional Neural Network (CNN) Based KNN.", 2020-2022.

FINAL YEAR PROJECT

- The responsible faculty member for Final Year Project (FYP) courses in the whole department (60 students/ semester).
- Training students on Technical Writing in FYP documents.
- Training students on preparing successful presentations.
- The responsible faculty member to monitor all faculty members' supervision to their students.
- Organizer of FYP evaluation committee.
- Organizer of FYP competition against other colleges and departments in university.

- Two of my groups won the first and the second places in FYP competition against other colleges and departments in university.
- Supervised many bachelor FYP projects :
 - College security system using Arduino Uno- toolkit
 - New attack for audio and video files in Misurata university network.
 - Developing new Bluetooth security system based watch for special need kids.
 - Develop new mobile application based on Braille system for blind students.
 - Develop a smart Bluetooth secured sharing system for department.
 - Smart parking systems using Arduino Uno-toolkit.
 - New intelligent Kids ‘education program.
 - Developing a new company’s communication network based on using Windows SharePoint.
 - Developing intelligent mosque system based on Arduino Uno-toolkit
 - Developing an intelligent attendance system based on face detection and recognition system.

UNGRADUATE COURSES

Other Studied Courses (in Computer Networking and Security)	Advanced Computer Network, Network Security, Cryptography, Multimedia Network, Transmission Lines, Optical Fiber, Operating Systems, and Distributed Systems.
Studied Courses (In Communication)	Electrical circuits, Electromagnetic, Signal analysis and processing, Electronic circuits, Digital electronics, Automatic control, Computer architecture, Operating systems concepts, System analysis and design, Communications Systems (analog and digital), Communication Circuits, Digital Signal Processing, and Image processing.

POSTGRADUATE COURSES

Other Studied Courses (in Computer Networking and Security)	Advanced Network, Network Security, Cryptography, Performance Evaluation and Quality of Service in Secure Wireless Networks, Multimedia Network, Advanced Operating Systems, and Distributed Systems.
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TRAINING

- Machine learning and Expert Systems, Kaggle, 2020.
- Social Media (Big data) analysis, University Sains Malaysia, 2018.
- Technical Writing, University Sains Malaysia, 2017.
- CCNA-Academic (ICND) courses, Jordan University of science and technology 2009-2011.
- .CCNA courses, Misurata University 2013.
- Academic faculty professional, Taibah University 2012.
- PIC-Microcontroller programming courses, AL-Balqa'a Applied University 2008.
- Arduino Uno microcontroller programming, Misurata University 2014.
- Programing the NAO Robot, Misurata University 2014.
- Java basic programming, Jordan 2010.
- Linux Programming, Jordan 2010.
- Virtual Reality and Artificial Intelligence, Jeebles Center for Excellence, 2019.
- Robotics, Jeebles Center for Excellence, 2019.

SKILLS

Programming Skills	<ul style="list-style-type: none"> • C++, C, JAVA Basic, C under Linux, Assembly, Visual basic.
Operating Systems	<ul style="list-style-type: none"> • Windows , Linux
Software and programs	<ul style="list-style-type: none"> • Matlab, Mathematica, PS-Pies, Circuit maker, Packet Tracer, Packet Sniffer, Nettopo, NS-2 , Opnet, Omnet , Photoshop, Autocad, SPSS.
Skills	<ul style="list-style-type: none"> • CISCO Networking Academy Trainer. • Practical network configuration (Routers, Switches, and Servers). • Very good knowledge of cryptographic methods , RSA,DES,AEAS,Hashing,Masking ... ,ext • Embedded System Design Using PIC MCUs. • Excellent presentation skills. • Professional in Networking Field. • Knowledge in communication networks, Wireless Networks, Wireless Sensor Networks, and Performance Evaluation of Wireless Networks. • Practical cyber security tenders and defense. • Very Sociable Character.

TEACHING STATEMENT

Teaching holds a paramount place in my life, as it represents both a crucial responsibility and a source of immense joy. To me, it stands as the most effective means to impart my knowledge to others. I derive great satisfaction from teaching for two fundamental reasons. First and foremost, there are few things as gratifying as witnessing the spark of comprehension ignite in someone's eyes when they grasp a new concept. Secondly, the act of instructing others in challenging subjects often deepens my own understanding of those very concepts.

At the core of my teaching philosophy lies the desire to equip students with a multifaceted understanding of key concepts and topics, fostering a sense of enjoyment for the subjects they study. I aim to empower them to apply this knowledge in their professional lives and inspire them to contemplate ways to enhance and innovate applications related to their coursework. I firmly believe that integrating experiential learning with academic courses enables students to not only comprehend but also develop and invent novel applications that can simplify our daily lives. This pedagogical approach nurtures students' ability to grasp the logic behind discovering new technologies and, in the future, to embark on their own entrepreneurial journeys, creating innovative devices and technologies.

My journey in teaching began in the computer engineering department at Jordan University of Science and Technology (JUST) while I was pursuing my master's degree. Upon graduating, I assumed the role of a lecturer at various institutions, including MEU, Sohar University, JUST, Taibah University, Misurata University, and Nizwa University. Throughout my career, I undertook the responsibility of teaching a diverse range of courses encompassing computer science, information systems, networks, security, and artificial intelligence. My primary objective has always been to present complex topics in a clear and accessible manner, enabling students to not only understand but also enjoy the learning process, ultimately enhancing their knowledge, study skills, and critical thinking abilities.

Meeting the challenge of developing effective teaching techniques and methodologies has been instrumental in shaping capable students who can confidently navigate real-life problems. I maintain unwavering belief in myself, which extends to my students, and this belief has consistently translated into high evaluation ratings as a university faculty member. Armed with self-confidence, expertise, ambition, determination, passion, and a professional approach, I am committed to the continuous cultivation of successful students who are poised to embrace a promising future.

RESEARCH STATEMENT

I have been meticulously charting my career path in the domains of computer engineering, information technology, artificial intelligence, networking, cybersecurity, network security, research, renewable energy, and solar energy for several years. During my undergraduate years, I was deeply committed to gaining a strong foundation in computer science, computer applications, mathematics, cutting-edge research topics, intelligent systems, and energy systems. Following graduation, I embarked on a journey as a lecturer and researcher, spanning various universities across different countries. This diverse experience allowed me to broaden my knowledge across an array of fields and enhance my proficiency in various computer-related disciplines, including computer networks, security, communication, research methodology, and energy systems. It also provided me with the opportunity to reflect on my career goals and immerse myself in diverse work environments.

Over the past six years, I have channeled my efforts towards expanding my expertise in artificial intelligence, computerized systems, renewable energy, solar energy, solar tracking system efficiency enhancement, computer networks, and security. I have actively contributed to these fields by proposing innovative techniques to optimize solar tracking systems and maximize solar power generation. This journey has spurred me to explore real-life challenges and apply my knowledge to devise solutions that fuse computer science with practical applications, thereby simplifying and enhancing various aspects of our lives. I find particular fascination in refining existing real-world applications through the application of computer knowledge, resulting in intelligent, swift, user-friendly, and beneficial systems.

As a foundational step in my computer research journey, I have delved into a comprehensive analysis of prevalent global issues, with a specific focus on the Middle East region. In my master's thesis, I successfully constructed an intelligent and efficient solar tracking system, fully computerized in operation. My doctoral research further honed my skills in developing computerized models tailored to optimizing solar energy collection. These endeavors necessitate a profound understanding and mastery of the subject matter.

I have always excelled in areas requiring logical and analytical thinking, and I am eager to synthesize diverse fields such as artificial intelligence and energy systems, as well as networks and security. My journey has involved a deep dive into intricate problems within computer engineering, including network routing, network coding, information security, mobile payment networks, and data sharing. Leveraging my expertise in computer engineering, I have engaged with cutting-edge research topics, publishing numerous papers in renowned international conferences and journals to remain at the forefront of emerging research trends.

Ultimately, my aspiration is to establish myself as a prominent global researcher, driven by my inherent potential to meticulously plan, investigate, and resolve current challenges within these fields.

REFERENCES

- Prof. Dr. Ir. Nor Ashidi Mat Isa : ashidi@usm.my ,University Sains Malaysia, Malaysia.
- Dr. Mohammad Khairunaz Mat Desa: khairunaz@usm.my ,University Sains Malaysia, Malaysia.
- Dr. Mohammad AL-Rousan: rousan@just.edu.jo , Jordan University of science and Technology, Jordan.