

► Prof. Dr. Fadi Al-Turjman

Advisor to the chairman of the board of trustees
(<https://neu.edu.tr/staff/fadi-al-turjman/>),
Dean for Artificial Intelligence and Informatics
Faculty (<https://aif.neu.edu.tr/academic/>),
Director of the Research Center for AI & IoT
(<https://iot.neu.edu.tr/>),
Founding Director of the AI & Robotics Institute
(<https://air.neu.edu.tr/>),
Head of Software Engineering Dept.,
Near East University, Nicosia
E-mail: fadi.alturjman@neu.edu.tr



https://scholar.google.com/citations?hl=en&user=5G0uavwAAAAJ&view_op=list_works&sortby=pubdate

Prof. Dr. Fadi Al-Turjman received his Ph.D. in computer science from Queen's University, Canada, in 2011. He is the “advisor to the chairman of the board of trustees on AI and informatics” at Near East University (NEU), Turkey, and the founding dean for AI and Informatics faculty in the same university. Prof. Al-Turjman is the head of Software Engineering Department, and the founding director for the AI and Robotics Institute and the International Research Center for AI and IoT at NEU. He has been awarded the lifetime golden-award of Dr. Suat Günsel from Near East University for the year 2022, in addition to several other recognitions and best research awards at key international venues. Prof. Al-Turjman is a leading authority in the areas of smart/intelligent IoT systems, wireless, and mobile networks' architectures, protocols, deployments, and performance evaluation in Artificial Intelligence of Things (AIoT). His publication history spans over 650 SCI/E publications, in addition to numerous keynotes and plenary talks at flagship venues. He has authored and edited more than 100 books about AI, cognition, security, and wireless sensor networks' deployments in smart IoT environments, which have been published by well-reputed publishers such as IEEE, Taylor and Francis, Elsevier, IET, and Springer. Prof. Al-Turjman is leading a number of international conferences and workshops in flagship AI and IoT societies. Currently, he serves as a book series editor with distinguished publishers, and the lead guest/associate editor for several top tier journals, including the IEEE Communications Surveys and Tutorials (IF 23.9) and the Elsevier Sustainable Cities and Society (IF 10.8).

Academic ranks

- Professor (2019)
- Associate Professor (2015)

- Assistant Professor (2011)

Education

Ph.D. (JUNE, 2011)

- School of Computing, Queen's University, Canada
- Thesis title: "Efficient deployment for wireless sensor networks in environment monitoring".
- Advisor: Prof. Hossam Hassanein

M.Eng. (JAN, 2007)

- Computer Engineering, Kuwait University
- GPA = 3.85 out of 4.00, distinction with honor.
- Advisor: Prof. Sultan Al-Harbi

B.Eng. (JUNE, 2004)

- Computer Engineering, Kuwait University.
- GPA = 3.83 out of 4.00, distinction with honor.

Research Interests

- Smart-cities and mobile applications
- Artificial Intelligence in the Internet of Things (IoT)
- Architectures and data-delivery in Information-Centric Networks (ICNs) and Cloud Computing era
- Economic-based data delivery in IoT
- Integration of heterogeneous enabling technologies in IoT
- Deployment planning in Next Generation Networks (NGN)
- Architectures and networking protocols in integrated RFID-Sensor Networks (RSNs)
- Design and implementation of Wireless Sensor Networks (WSNs) platforms
- Performance analysis in integrated communication systems

Employment

Dean for the Faculty of AI and Informatics (March 2025 – present) – Fulltime
Near East University (Nicosia, Cyprus)

Advisor to the chair of the board of trustees (July 2023 – present) – Fulltime
Near East University (Nicosia, Cyprus)

- Establishing the international relations/collaborations in terms of research and teaching.
- Introducing and opening new and potential technological directions in the field of AI and Informatics.

Associate Dean for Research (June 2021 – present) – Fulltime
Faculty of Engineering, Near East University (Nicosia, Cyprus)

- Establishing the faculty of engineering research office.

- Introducing and opening new research positions.
- Establishing new academic programs and research institutes.

Honorary Professor (May 2021 – present)
Galgotias University, India

Honorary Professor (May 2021 – present)
Singidunum University (Belgrade, Serbia)

Professor & Head of AI Engineering Department (April 2021 – present) – Fulltime
Associate Dean for Research, Faculty of Engineering, Near East University (Nicosia, Cyprus)
Department of Artificial Intelligence, Near East University (Nicosia, Cyprus)

- Supervising and advising grad and undergrad students.
- Investigating intelligent strategies and performance analysis in the Internet of Things (IoT).
- Teaching and developing grad/undergrad courses at NEU University.

Professor & Research Center Director (Sept. 2019 – present) – Fulltime
Department of Artificial Intelligence, Near East University (Nicosia, Cyprus)

- Director for the International Research Center of AI and IoT
- Investigating intelligent strategies and performance analysis in the Internet of Things (IoT).
- Teaching and developing grad/undergrad courses at NEU University.

Professor (Feb. 2018 – Sept. 2019) – Fulltime
Department of Computer Engineering, Antalya Bilim University (Antalya, Turkey)

- Investigating strategies and performance analysis in the Internet of Things (IoT).
- Teaching and developing grad/undergrad courses at Antalya Bilim University.
 - Instructor/developer of the CS210: *Data Structures* course. (Undergrad)
 - Instructor/developer of the CS101: *Python Programming* course. (Undergrad)

Flying Faculty Member (Feb. 2018 – June 2019) – Part-time
Department of Computer Engineering, METU NCC (Cyprus)

- Teaching and developing grad/undergrad courses at METU NCC University.
 - Instructor of the CNG334: *Operating Systems* course. (Undergrad)
 - Instructor of the CNG230: *C Programming* course. (Undergrad)

Associate Professor (Sept. 2015 – 2018) – Fulltime
Department of Computer Engineering, METU NCC (Guzelyurt, Cyprus)

- Investigating strategies and performance analysis in the Internet of Things (IoT).
- Teaching and developing grad/undergrad courses at METU NCC University.
 - Instructor/developer of the CNG476: *System Simulations* course. (Undergrad)
 - Instructor of the CNG334: *Operating Systems* course. (Undergrad)
 - Instructor/developer of the CNG597: *Green Internet of Things* course. (Grad)
 - Instructor/developer of the CNG495: *Cloud Computing* course. (Undergrad)

- Instructor of the CTE 314: Computer Networks and Communication course. (Undergrad)
- Instructor of the CNG230: C Programming course. (Undergrad)
- Instructor of the CNG213: Data Structures course. (Undergrad)
- Instructor/developer of the CNG443: Java Programming course. (Undergrad)
- Instructor of the CNG331: Computer Organization course. (Undergrad)

Assistant Professor (July 2013 – Oct. 2015) – Fulltime
School of Engineering, University of Guelph (Ontario, Canada)

- Investigating strategies and performance analysis in integrated wireless networks.
- Creating and pursuing new research directions in Information-Centric Networks (ICNs).
- Organizing and chairing international workshops/conferences on potential research directions in networks-related topics.
- Supervising and mentoring graduate/undergraduate students, and preparing advanced-topic tutorials at international conferences.
- Teaching and developing grad/undergrad courses in school of engineering at the University of Guelph.
 - Instructor/developer of the ENGG4650: *Integrated Sensors & Photonic Devices* course in the School of Engineering, University of Guelph. (Undergrad)
 - Instructor/developer of the ENGG4540: *Advanced Computer Architectures* course in the School of Engineering, University of Guelph. (Undergrad)
 - Instructor/developer of the ENGG6xxx: *Special topics on Wireless Sensor Networks* course in the School of Engineering, University of Guelph. (Grad)

Adjunct Assistant Professor (Aug. 2013 - Present)
ECE Dept., Queen's University (Ontario, Canada)

- Supervising and mentoring PhD students at Queen's University.
- Investigating new research topics in computing and telecommunications.

Postdoctoral Fellow (June 2011 – June 2013) - Fulltime
Telecommunications Research Lab (TRL), School of Computing, Queen's University (Ontario, Canada)

- Investigating strategies and performance analysis in integrated wireless networks under varying operational conditions and heterogeneous enabling technologies.
- Creating and pursuing new research directions in IoT.
- Producing a number of research papers to top conferences and journals in my research interests.
- Writing, preparing, and being consulted on grant proposals, reports, and presentations.
- Supervising and mentoring graduate/undergraduate students, and preparing advanced-topic tutorials at international conferences.
- Attending/organizing international workshops on potential research directions in networks-related topics.

Consultant (Jan. 2012 – Dec. 2013) – Part time
King Saud University (Saudi Arabia)

- Consultant on the NPTS project (Novel Planning, Tracking, and Identification Schemes Towards Enabling Large Scale RFID Networks), Project number: 11-INF1500-02.

- Assessing viability of RFIDs in large scale deployments.
- Pursuing new research directions in integrated RFIDs & WSNs.

Adjunct Assistant Professor (Winter 2013) – Fulltime
ECE Dept., Queen's University (Ontario, Canada)

- Instructor of the ELEC 476: Modeling and Systems Simulation course in the Dept. of Electrical & Computer Engineering, Queen's University.
URL: <http://research.cs.queensu.ca/~fadi/ELEC476>

Adjunct Assistant Professor (Winter 2012) – Fulltime
ECE Dept., Queen's University (Ontario, Canada)

- Instructor of the ELEC 374: Digital Systems Engineering course in the Dept. of Electrical & Computer Engineering, Queen's university.
URL: <http://research.cs.queensu.ca/~fadi/elec374.html>

Adjunct Assistant Professor (Fall 2011) – Fulltime
School of Computing, Queen's University (Ontario, Canada)

- Instructor of the CISC 435: Computer Networks course in the School of Computing, Queen's university.
URL: <http://research.cs.queensu.ca/~cisc435/>

Honors, Awards and Scholarships

- 2022: Lifetime golden-award of Dr. Suat Günsel from Near East University, Cyprus
- 2022: Best professor award from Near East University, Cyprus
- 2022: Top Researcher Award from Near East University, Cyprus
- 2021: Best professor award from Near East University, Cyprus
- 2021: Top Researcher Award from Near East University, Cyprus
- 2020: Best Research Paper Award from *Elsevier Internet of Things Journal*
- 2019: Top Downloaded Paper from *Wiley Transactions on Emerging Telecommunications Technologies Journal*.
- 2019: Best Research Paper Award from *Elsevier Computer Communication Journal*
- 2018: Top Researcher Award from Antalya Bilim University, Turkey.
- 2018: Authored Book publication award from Antalya Bilim University, Turkey.
- 2017: Authored Book publication award from METU University, North Cyprus.
- 2016: Best paper award in the IEEE IWCMC WS.
- 2011-present: Annually achieving Best paper awards at IEEE's International Conferences.
- 2010: Research Excellence Award, TRL lab, School of Computing, Queen's University.
- 2007/09 - 2011/05: Queen's General Award, Queen's University, Canada.
- 2008/05 - 2008/06: OCE Professional Outreach Award, at Brock University, Canada.
- 2008/02 - 2008/02: OCE Professional Outreach Award, Workshop in Guelph, Canada.
- 2007/09 - 2009/12: Queen's International Student Award, Queen's University, Canada.
- 2004/09 - 2007/01: Dean's list, Kuwait University, Kuwait.
- 2004/09 - 2007/01: Distinction list, Kuwait University, Kuwait.

- 2004: Graduation with Honors, awarded by the Prince of the State of Kuwait
- 2000/09 - 2004/06: Distinction list, Kuwait University, Kuwait.
- 2000/09 - 2004/06: Dean's list, Kuwait University, Kuwait.

Publications

Selected Refereed Journal papers

1. B. Alex, D. Yedurkar, **F. Al-Turjman**, T. Stephan, Y. Hamid, M. Shah, "A Novel Hybrid BGRU-CNN Approach for Multilabel Toxicity Detection in Online Environments", *Journal of Intelligent Systems*, 2025.
2. A. Ibrahim, **F. Al-Turjman**, "I-BrainNet: Deep Learning and Internet of Things (DL/IoT)-based Framework for the Classification of Brain Tumor", *Journal of Imaging Informatics in Medicine*, 2025.
3. A. Shivaswaroop, V. Sood, Gururaj H L, Shreyas J, **F. Al-Turjman**, "RogueGPT: Unleashing Jailbreak Prompts on LLMs A comparative analysis of security efficiency across large language models", *Engineering Reports*, 2025.
4. T. Stephan, **F. Al-Turjman**, "A Hybrid Breast Masses Detection In Mammograms Using Geometric Deformable Contour Model and Convolutional Neural Network", *Biomedical Signal Processing and Control*, 2025. **(IF 4.9)**
5. R. Salama, T. Tulbentci, **F. Al-Turjman**, "Deep Learning Technology: Enabling Safe Communication via the Internet of Things", *Front. Comms. Net.*, vol. 6, 2025. DOI. 10.3389/frcmn.2025.1416845.
6. A. Ibrahim, I. Nwaneri, M. Vubangsi, **F. Al-Turjman**, "I-Brainer: Artificial Intelligent/Internet of Things (AI/IoT)-Powered Detection of Brain Cancer", *Current Medical Imaging*, 2024.
7. H. Chen, **F. Al-Turjman**, "Cloud-based Configurable Data Stream Processing Architecture in Rural Economic Development", *PeerJ Computer Science*, 2024. 10:e2547 <https://doi.org/10.7717/peerj-cs.2547>
8. M. Malik, B. Goyal, C. Prabha, T. Tulbentci, D. Tiwari, S. Akdag, **F. Al-Turjman**, N. Bhati, "Multivalent Optimizer- based hybrid genetic Algorithm for task scheduling in cloud Applications", *Journal of Computer Science*, 21(2), 223-234. <https://doi.org/10.3844/jcssp.2025.223.234>, 2024.
9. A. Almomani, **F. Al-Turjman**, "The Intelligent Combination of DV-HOP and RSSI based Positioning Approaches in the IoT Era", *Journal of Communications*, Vol.19(9): 449-457, 2024. DOI: 10.12720/jcm.19.9.449-457.
10. A. Almomani, **F. Al-Turjman**, "Improved DV-HOP Model with RSSI Combination-Based Multilayer Perceptron for Wireless Sensor Networks", *IEEE Transactions On Network And Service Management*, 2024.

11. H. Shehab, **F. Al-Turjman** “Developing an AI Model That Relies on Mobile Health Devices to Track Heart Activity”, *Journal of Techniques*, 6 (3), 12-18, 2024.
12. P. Narsimhulu; P. Chithaluru; **F. Al-Turjman**; T. Stephan, “An Intelligent FL-based Vehicle Route Optimization Protocol for Green and Sustainable IoT Connected IoV”, *Elsevier Internet of Things*, 2024. **(IF 5.71)**
13. A. Ibrahim, **F. Al-Turjman**, “Applied Artificial Intelligence and Prospect of Internet of Everything (IoE) for the Detection of Tuberculosis”, *Applied Artificial Intelligence*, 2024.
14. I. Muazu, İ. Etikan, & **F. Al-Turjman**, “A Comparison of Deep Learning, Machine Learning, and Their Ensembles on Early-Stage Diabetes Prediction”, *SAINS MALAYSIANA*, 2024.
15. C. Mlimwa, S. Abidemi, O. Fadare, **F. Al-Turjman** “The Development And Implementation Of A Learning Management System, Dux”, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREE)*, Vol. 13, no. 5, 2024.
16. HR Mhmood, OA Fadare, **F. Al-Turjman**, “Combining Cloud Computing and AI and Its Effects on the Telecom Industry”, *Dijlah Journal of Engineering Science*, vol. 1, no. 1, 2024.
17. A ALwhelat, F Olusolade, **F. Al-Turjman**, LJ Ibrahim, “Wildfire Detection In Dry Forests Using Wsn-Iot Sensors And K-Means Algorithm”, *Dijlah Journal of Science and Technology*, vol. 1, no. 1, 2024
18. LR Al-Jaburi, OA Fadare, **F. Al-Turjman**, “AI Empowering Unmanned Aerial Vehicle Using Cloud Computing”, *Dijlah Journal of Engineering Science*, vol. 1, no. 1, 2024.
19. LJ Ibrahim, OA Fadare, **F. Al-Turjman**, A ALwhelat, “Ant Colony Optimization With Lagrangian Relaxation For Cloud Computing Offloading Optimization”, *Dijlah Journal of Science and Technology*, vol. 1, no. 1, 2024.
20. A. Mohamed, I. Shayea, **F. Al-Turjman**, “Implementation of Six Single Classifiers and Feature Selection for Performance Enhancement in Anomaly-Based Intrusion Detection”, *International Journal of Electronics and Communication Engineering*, vol. 11, no. 3, pp. 195-208, 2024.
21. N. Naser, **F. Al-Turjman**, S. Serte, “Houses Classification Using Vision Transformer With Shifted Patch Tokenization”, *Journal of Intelligent & Fuzzy Systems*, 2024. **(IF 2)**.
22. **F. Al-Turjman**, W. Hamouda, S. Mumtaz, “Smart energy management using green computing”, *Elsevier Energy Reports*, vol. 11, no. 1, pp. 3186-3188, 2024. **(IF 6.1)**.
23. M. Vubangsia, A. Mubarak, **F. Al-Turjman**, “Enhancing Predictive Modeling of Photovoltaic Materials’ Solar Power Conversion Efficiency using Explainable AI”, *Elsevier Energy Reports*, vol. 11, pp. 3824-3835, 2024. **(IF 6.1)**.

24. A. Khamparia, A. Singh, **F. Al-Turjman**, “A Hybrid Evolutionary Approach for Multi-Objective Unit Commitment Problem in Power Systems”, *Elsevier Energy Reports*, vol. 11, no. 1, pp. 2439-2449, 2024. (IF 6.1).
25. B. Alex, D. Yedurkar, **F. Al-Turjman**, and T. Stephan, “An IoT-Based Novel Hybrid Seizure Detection Approach for Epileptic Monitoring”, *IEEE Transactions on Industrial Informatics*, vol. 20., no. 2, pp. 1420-1431, 2024. DOI: 10.1109/TII.2023.3274913. (IF 12.08).
26. P. Ramprakash, M. Rajeswari, N. Krishnaraj, J. Ramprasath, T. Gopalakrishnan, A. Dutta, J. Rodrigues, **F. Al-Turjman**, “An efficient approach to classify chronic diseases using the DE-GSAPSO-ANFIS algorithm”, *Soft Computing*, 2024. DOI: 10.1007/s00500-024-09682-3. (IF 4.3).
27. A. Ibrahim, P. Joshua, P. Pwavodi, **F. Al-Turjman**, M. Ali “The Role of Artificial Intelligence and IoT in Prediction of Earthquakes: Review”, *Artificial Intelligence in Geosciences*, 2024.
28. S. Alabdulateef, **F. Al-Turjman**, “Democratizing Healthcare through Explainable AI (XAI) at the Edge with Cloud Support”, in *IJIRCCE*, Volume 12, Issue 5, May 2024.
29. P. Singh, R. Kumar, M. Gupta, **F. Al-Turjman**, “SegEIR-Net: A Robust Histopathology Image Analysis Framework for Accurate Breast Cancer Classification”, *Current Medical Imaging*, 2024.
30. H. Abubakar, **F. Al-Turjman**, Z. Ameen, A. Mubarak, C. Altrjman, “A Hybridized Feature Extraction for COVID-19 Multi-Class Classification on Computed Tomography Images”, *Heliyon*, 2024. DOI: 10.1016/j.heliyon.2024.e26939. (IF 4).
31. A. Ibrahim, M. Babiker, **F. Al-Turjman**, and K. Suer, “Artificial Intelligent-Powered Detection Of Tuberculosis: Review”, *Data Intelligence*, 2024.
32. P. Chithaluru, **F. Al-Turjman**, R. Dugyala, T. Stephan, M. Kumard, J. Dhatteval, “An Enhanced Consortium Blockchain Diversity Mining Technique for IoT Metadata Aggregation”, *Elsevier Future Generation Computer Systems*, Vol. 152, pp. 239-253 2024. DOI: 10.1016/j.future.2023.10.020. (IF 10.1).
33. R. Salama, **F. Al-Turjman**, “Sustainable Energy Production in Smart Cities”, *Sustainability*, 2023. DOI: 10.3390/su152216052. (IF 3.9)
34. N. Saadallah, S. Alabady, **F. Al-Turjman**, “Energy-Efficient Cluster Head Selection via Genetic Algorithm”, *Al-Rafidain Engineering Journal (AREJ)*, Vol. 29, No. 1, pp. 12-25, 2024.
35. T. Mishra; M. kolhar; S. Mishra; H. Mohapatra; **F. Al-Turjman**, “Local Features Based Evidence Glossary for Generic Recognition of Handwritten Characters”, *Neural Computing and Applications*, 2023. DOI: 10.1007/s00521-023-09051-5. (IF 6.0).

36. P. Chithaluru; **F. Al-Turjman**; M. Kumar; S. Kumar, T. Stephan, “An Optimized Bio-inspired Localization Routing Technique for Sustainable IIoT Networks & Green Cities”, *Elsevier Sustainable Cities and Society*, 2023. DOI. 10.1016/j.scs.2023.104722. **(IF 10.7)**.
37. **F. Al-Turjman**, D. Deebak, “EEI-IoT: Edge-Enabled Intelligent IoT Framework for Early Detection of COVID-19 Threats”, *Sensors*, 2023, 23, 2995. <https://doi.org/10.3390/s23062995> **(IF 3.9)**
38. G. Bojan, A. Rajasekaran, K. Kaliraj, Gopinath S, **F. Al-Turjman**, M. Kolhar, C. Altrjman, “Concerted Data Classification and Transmission Scheme for Identifying Discrete Observation Sequences in Wearable Sensor Applications”, *Sensors*, 2023. **(IF 3.9)**
39. A. Ibrahim, A. Kibarar, **F. Al-Turjman**, S. Kaba, “Large-Scaled Detection of COVID-19 from X-ray Using Transfer Learning”, *International Journal of Imaging Systems and Technology*, 2023. DOI. 10.1002/ima.22904. **(IF 2.2)**
40. A. Ibrahim, M. Ozsoz , **F. Al-Turjman**, “Crispr Biosensing And AI Driven Tools For Detection And Prediction of Covid-19”, *Journal of Experimental & Theoretical Artificial Intelligence*, vol. 35, no. 4, pp. 489-505, 2023. DOI. 10.1080/0952813X.2021.1952652.
41. P. Akella, K. Rajagopal, **F. Al-Turjman**, “A Novel Hybrid Model for Automatic Diabetic Retinopathy Grading and Multi-Lesion Recognition Method Based on SRCNN & YOLOv3”, *International Journal of Nanotechnology*, Vol. 20, Nos. 5/6/7/8/9/10, pp. 615-643, 2023.
42. G. Senthilkumar, **F. Al-Turjman**, R. Kumar, J. Ramakrishnan, “Diagnosing cardiovascular disease via intelligence in healthcare multimedia: a novel approach”, *International Journal of Nanotechnology*, Vol. 20, Nos. 1/2/3/4, pp.182–198, 2023.
43. R. Salama, **F. Al-Turjman**, “Security And Privacy in Mobile Cloud Computing and the Internet of Things”, *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 3, no. 1, 2024.
44. R Salama, S Alturjman, C Altrjman, **F. Al-Turjman**, “Distributed Mobile Cloud Computing Services Using Blockchain Technology”, *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 3, no. 1, 2024.
45. R Salama, S Alturjman, C Altrjman, **F. Al-Turjman**, “An Overview of the Applications of Blockchain and AI in Business”, *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 3, no. 1, 2024.
46. **F. Al-Turjman**, “Familiarizing Teachers/Learners with AI-assisted Learning and Evaluation Implementations–Prof. DUX a Use Case”, *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 2, no. 4, 2023.
47. R Salama, S Alturjman, C Altrjman, **F. Al-Turjman**, “Cloud Computing Services for Distributed Mobile Users and Blockchain Technology”, *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 2, no. 4, 2023.

48. R Salama, S Alturjman, C Altrjman, **F. Al-Turjman**, "Managing Cybersecurity in Smart Cities With Blockchain Technology", *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 2, no. 4, 2023.
49. R Salama, S Alturjman, C Altrjman, **F. Al-Turjman**, "Blockchain and Green Mobile Cloud Computing", *NEU Journal for Artificial Intelligence and Internet of Things*, vol. 2, no. 4, 2023.
50. J. Subramani, A. M, A. Rajasekaran, **F. Al-Turjman**, "EPF-FDA: Efficient Pairing Free and Confidentiality Preserving Fog-Based Data Aggregation Scheme for WBANs", *IEEE Instrumentation & Measurement Magazine*, 2022.
51. A. Maria, J. Subramani, A. Rajasekaran, **F. Al-Turjman**, M. Kolhar, C. Altrjman, "Secure Key Management-based Data Aggregation with Privacy and Confidentiality Preserving Scheme for Fog-Assisted WBANs", *Human-centric Computing and Information Sciences*, 2022. **(IF 6.5)**
52. **F. Al-Turjman**, D. Cacciagrano, F. Corradini, M. Marcozzi, G. Mazzante, L. Mostarda, E. Scala, and D. Sestili "Off-chain solutions for Blockchains: challenges and future directions", *Security and Communication Networks*, 2022.
53. P. Chithaluru, **F. Al-Turjman**, M. Kumar, T. Stephan, "Computational Intelligence Inspired Adaptive Opportunistic Clustering Approach for Industrial IoT Networks", *IEEE Internet of Things Journal*, 2023. DOI. 10.1109/JIOT.2022.3231605. **(IF 10.9)**.
54. P. Chithaluru, **F. Al-Turjman**, M. Kumar, T. Stephan, "Energy-balanced Neuro-Fuzzy Dynamic Clustering Scheme for Green & Sustainable IoT based Smart Cities", *Elsevier Sustainable Cities and Society*, 2023. DOI. 10.1016/j.scs.2022.104366. **(IF 10.7)**.
55. A. Guru, B. Mohanta, H. Mohapatra, **F. Al-Turjman**, C. Altrjman, A. Yadav, "A Survey on Consensus Protocols and Attacks on Blockchain Technology", *Applied Sciences*, vol. 13, no. 4, 2023. DOI. 10.3390/app13042604. **(IF 2.76)**.
56. M. Rana, K. Mahmood, M. Saleem, **F. Al-Turjman**, M. Kolhar, C. Altrjman, "Towards a Provably Secure Authentication Protocol for Fog-Driven IoT-Based Systems", *Applied Sciences*, vol. 13, no. 3, 2023. DOI. 10.3390/app13031424. **(IF 2.8)**.
57. A. Ibrahim, A. Kibarar, **F. Al-Turjman**, "Computer-aided Detection of Tuberculosis from Microbiological and Radiographic Images", *Data Intelligence*, 2023. DOI. 10.1162/dint_a_00198.
58. A. Mubarak, S. Serte, **F. Al-Turjman**, Z. Ameen, "Data Augmentation and Denoising of Computed Tomography (CT) Scan Images In Training Deep Learning Models For Rapid COVID-19 Detection", *Int. J. of Business Intelligence and Data Mining*, 2023.

59. I. Irkham, A. Ibrahim, P. Pwadovi, **F. Al-Turjman**, Y. Hartati, "Smart Graphene-Based Electrochemical Nanobiosensor For Clinical Diagnosis: Review", *Sensors*, vol. 23, no. 4, 2023. DOI. 10.3390/s23042240. **(IF 3.9)**
 60. R. Lenka, H. Mohapatra, **F. Al-Turjman** and C. Altrjman, "A Review of Energy Saving Routing Schemes for WSN Assisted IoT Network", *International Journal of Emerging Electric Power Systems*, 2022. DOI. 10.1515/ijeeps-2022-0104.
 61. A. Ibrahim, C. Nwekwo, **F. Al-Turjman**, I. Irkham, Y. Hartati, "Current Technologies for Detection of COVID-19: Biosensors, Artificial Intelligence and Internet of Medical Things (IoMT): Review", *Sensors*, vol. 23, no. 1, pp. 426, 2023. DOI. 10.3390/s23010426. **(IF 3.9)**
 62. A. Mubarak, Z. Said, **F. Al-Turjman**, "A Multi-Decoder-Based Detection Transformer Model For Drone Detection", *IET Electrical Systems in Transportation*, 2023. DOI: 10.1049/els2.12067.
 63. A. Hussain, **F. Al-Turjman**, "IoMT Cloud Task Scheduling Using AI", *Wireless Communications and Mobile Computing*, vol. 135, no. 2, pp. 1345-1369, 2023. **(IF 2.14)**
 64. S. Rajeyyagari, S. Alahmari, **F. Al-Turjman**, "Davis Mayer Streebog Cryptographic Hash-Based Blockchain for Secure Transaction Management Using SDN in IIoT Applications", *Journal of Signal Processing Systems*, 2022. DOI. 10.1007/s11265-022-01825-9.
 65. H. Rauf, J. Gao, A. Almadhor, A. Haider, Y. Zhang, **F. Al-Turjman**, "Multi population-based chaotic differential evolution for multi-modal and multi-objective optimization problems", *Applied Soft Computing*, vol. 132, no. 1, pp. 1-16, 2023. **(IF 8.5)**.
 66. R. Sakthivel, G. Nagasubramanian, M. Sankayyab, **F. Al-Turjman**, "Multilingual News Feed Analysis Using Intelligent Linguistic Particle Filtering Techniques", *ACM Transactions on Asian and Low-Resource Language Information Processing*, vol. 22, no. 3, pp. 1-19, 2023. DOI. 10.1145/3569899. **(IF 5.2)**
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11. A. Rajasekaran, **F. Al-Turjman**, "Artificial Intelligence of Things", to be Published with *Taylor and Francis*, CRC, New York, 2024.
12. S. Yadav, P. Raj, **F. Al-Turjman**, V. Albuquerque, "Quaternion-Sparse Based Image Processing", to be published with *Elsevier*, France, 2024. ISBN 13: 9780443292446.
13. **F. Al-Turjman**, F. Altinay, Z. Altinay Gazi, "Artificial Intelligence of Things (AloT): Current and Future Trends", Published with *Elsevier*, France, 2024. ISBN: 9780443264825.
14. A. Garg, M. Singh, A. Jain, **F. Al-Turjman**, "Smart Global Value Chain: Future Innovations", Published with *Taylor and Francis*, CRC, New York, 2024. ISBN 9781032609928.
15. A. Garg, **F. Al-Turjman**, and S. Khan, "Innovations in Blockchain-Powered Intelligence and Cognitive Internet of Things (CloT)", Published with *IGI Global*, USA, 2024. ISBN 979-8369321577.
16. V. Kulkarni, T. Stephan, S. Punitha, **F. Al-Turjman** and T. Perumal, "AloT and Smart Sensing: A Comprehensive Guide to the Next Generation of Smart Devices", to be Published with *Taylor and Francis*, CRC, New York, 2024.
17. **F. Al-Turjman**, "AloT and Smart Sensing Technologies for Smart Devices", published with *IGI Global*, USA, 2024. ISBN: 9798369307861
18. **F. Al-Turjman**, "Computational Intelligence and Blockchain in Complex Systems: System Security and Interdisciplinary Applications", published with *Elsevier*, France, 2024. ISBN: 9780443132681.
19. **F. Al-Turjman**, "Artificial Intelligence of Health-Enabled Spaces", Published with *Taylor and Francis*, CRC, New York, 2023. ISBN 9781032345802.
20. S. Sailedh. M. Naved, A. Nayyar, **F. Al-Turjman**, "Renewable Energy and AI for Sustainable Development", Published with *Taylor and Francis*, CRC, New York, 2023. ISBN-13:9781032439495.
21. **F. Al-Turjman**, P. Pramanik, and A. Nayyar "Crowdsourcing: Concepts, systems, platforms, technologies and applications", Published with *IET press*, UK, 2023.
22. S. Yadav, **F. Al-Turjman**, "Federated learning for Internet of Vehicles, Image, Vision and Intelligent Systems", *Bentham Science*, 2023.

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23. S. Yadav, R. Singh, V. Yadav, **F. Al-Turjman**, S. Kumar, "Quantum-safe Cryptography", *Published with Walter de Gruyter GmbH, Berlin/Boston*, 2023. ISBN: 9783110798005.
 24. V. Kumar, J. P. C. Rodrigues, S. Malathi, V. Balas, **F. Al-Turjman**, "5th International Conference on Intelligent Computing (ICoNIC 2K22)", *Published with Scopus - AIP*, 25-26 March 2022.
 25. **F. Al-Turjman**, A. Nayyar, M. Naved, A., Singh, M. Bilal, "XAI Based Intelligent Systems for Society 5.0", *Published with Elsevier, France*, 2023. ISBN 9780323953153.
 26. V. Jain, J. Moy, I. Priyadarshini, **F. Al-Turjman**, "Deep Learning for Healthcare Decision Making", *to be Published with IEEE River Publishers, Denmark*, 2022. ISBN: 9788770223898.
 27. K. Gupta, D. Sharma, R. Dwivedi and **F. Al-Turjman**, "Recent Advances in IoT and Blockchain Technology", *Published with Bentham Science*, 2023. ISBN: 978-981-5051-61-2.
 28. **F. Al-Turjman**, J. Rasheed, editors of a book titled: "Forthcoming Networks and Sustainability in the IoT Era", Second International Conference, FoNeS-IoT 2021, Volume 1, *Published with Springer, Switzerland AG*, 2022. ISBN 978-3-030-99615-4.
[Forthcoming Networks and Sustainability in the IoT Era | SpringerLink](#)
 29. **F. Al-Turjman**, J. Rasheed, editors of a book titled: "Forthcoming Networks and Sustainability in the IoT Era", Second International Conference, FoNeS-IoT 2021, Volume 2, *Published with Springer, Switzerland AG*, 2022. ISBN 978-3-030-99580-5.
[Forthcoming Networks and Sustainability in the IoT Era | SpringerLink](#)
 30. M. Gupta, R. Jain, A. Solanki and **F. Al-Turjman**, editors of a book titled: "Cancer Prediction for Industrial IoT 4.0: A Mining and Machine Learning Perspective" *Published with Taylor and Francis, CRC, New York*, 2021. ISBN 9781032028781.
 31. **F. Al-Turjman**, and D. B. Deebak, editors of a book titled: "Sustainable Networks in Smart Grid", *Published with Elsevier, France*, 2021. ISBN: 9780323856263.
 32. **F. Al-Turjman**, S. Yadav, M. Kumar, V. Yadav, T. Stephan, editors of a book titled: "Transforming Management with AI, Big-Data and IoT", *Published with Springer, Switzerland AG*, 2021. ISBN 978-3030867485.
 33. **F. Al-Turjman**, A. Nayyar, editors of a book titled: "Machine Learning for Critical Internet of Medical Things - Applications and Use Cases", *Published with Springer, Switzerland AG*, 2021. ISBN 978-3030809270.
 34. **F. Al-Turjman**, M. Kumar, T. Stephan, A. Bhardwaj, editors of a book titled: "Evolving Role of AI and IoMT in the Healthcare Market", *Published with Springer, Switzerland AG*, 2021. ISBN 978-3030820787.
 35. **F. Al-Turjman**, A. Nayyar, A. Devi, P. Shukla, editors of a book titled: "Intelligence of Things: AI-IoT Based Critical-Applications and Innovations", *Published with Springer, Switzerland AG*, 2021. ISBN 978-3-030-82799-1.
 36. E. Ever, **F. Al-Turjman**, editors of a book titled: "Forthcoming Networks and Sustainability in the IoT Era", First International Conference, FoNeS-IoT 2020, *Published with Springer, Switzerland AG*, 2021. ISBN 978-3-030-69430-2.
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37. **F. Al-Turjman**, single editor of a book titled: “Real-Time Intelligence for Heterogeneous Networks - Applications, Challenges, and Scenarios in IoT HetNets”, *Published with Springer, Switzerland AG, 2021. ISBN 978-3-030-75613-0.*
38. **F. Al-Turjman**, and U. Hamid, editors of a book titled: “Towards Connected and Autonomous Vehicle Highway: Technical, Security and Ethical Challenges”, *Published with Springer, Switzerland AG, 2021. ISBN 978-3-030-66041-3.*
39. **F. Al-Turjman**, single editor of a book titled: “Wireless Medical Sensor Networks for IoT-based eHealth”, *Published with IET press, UK, 2020. ISBN-13: 978-1-83953-056-2.*
40. **F. Al-Turjman**, single author of a book titled: “AI-powered IoT for COVID-19”, *Published with Taylor and Francis, CRC, New York, 2021. ISBN-13: 978-0367566746.*
41. **F. Al-Turjman**, single author of a book titled: “Artificial Intelligence and Machine Learning for COVID-19”, *Published with Springer, Switzerland AG, 2020. ISBN 978-3-030-60187-4.*
42. **F. Al-Turjman**, A. Devi, A. Nayyar, editors of a book titled: “Emerging Technologies for Battling Covid-19 - Applications and Innovations”, *Published with Springer, Switzerland AG, 2020. ISBN 978-3-030-60038-9.*
43. **F. Al-Turjman**, and D. B. Deebak, editors of a book titled: “Security in IoT Social Networks”, *Published with Elsevier, France, 2020. ISBN 9780128215999.*
44. **F. Al-Turjman**, single author of a book titled: “Smart-Grid in IoT-enabled Spaces – The Road to Intelligence in Power”, *Published with Taylor and Francis, CRC, New York, 2020. ISBN 978-0367517885.*
45. **F. Al-Turjman**, and G. N. Balaji, editors of a book titled: “Advanced Controllers for Smart Cities”, *Published with Springer, Switzerland AG, 2020. ISBN 978-3-030-48538-2.*
46. **F. Al-Turjman**, single editor of a book titled: “Drones in Smart Cities: Security & Performance”, *published with Elsevier, France, 2020. ISBN 9780128199725.*
47. **F. Al-Turjman**, single editor of a book titled: “Trends in Cloud-based IoT”, *published with Springer, Switzerland AG, 2020. ISBN 978-3-030-40036-1.*
48. **F. Al-Turjman**, single editor of a book titled: “Unmanned Aerial Vehicles in Smart Cities”, *Published with Springer, Switzerland AG, 2020. ISBN 978-3-030-38711-2.*
49. **F. Al-Turjman**, single author of a book titled: “The Cloud in IoT-enabled Spaces”, *published with Taylor and Francis, CRC, New York, 2019. ISBN 9780367278144*
50. **F. Al-Turjman & M. Imran**, Edited book: “IoT Technologies in Smart-Cities: From Sensors to Big Data, Security and Trust”, *published with IET press, UK, 2020. ISBN-13: 978-1-78561-869-7.*
51. **F. Al-Turjman**, single author of a book titled: “Drones in IoT-enabled Spaces”, *Published with Taylor and Francis, CRC, New York, 2019. ISBN 9780367266387.*

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52. **F. Al-Turjman**, single author of a book titled: “Internet of Nano-Things & Wireless Body Area Networks (WBAN)”, *Published with Taylor and Francis, CRC, New York, 2019. ISBN 9780367198527.*
 53. **F. Al-Turjman**, single editor of a book titled: “Smart-cities: Performability, Cognition & Security”, *Published with Springer, Switzerland AG, 2019. ISBN 978-3-030-14717-4.*
 54. **F. Al-Turjman**, single author of a book titled: “Security in IoT-enabled Spaces”, *Published with Taylor and Francis, CRC, New York, 2019. ISBN: 9780367111236.*
 55. **F. Al-Turjman**, single editor of a book titled: “Artificial Intelligence in IoT”, *Published with Springer, Switzerland AG, 2019. ISBN: 978-3-030-04110-6*
 56. **F. Al-Turjman**, single author of a book titled: “Intelligence in IoT-enabled Smart-Cities”, *Published with Taylor and Francis, CRC, New York, 2019. ISBN: 9781138316843.*
 57. **F. Al-Turjman**, single editor of a book titled: “Edge Computing: From Hype to Reality”, *Published with Springer, Switzerland AG, 2019. ISBN: 978-3-319-99060-6.*
 58. **F. Al-Turjman**, single editor of a book titled: “Performability in Internet of Things”, *Published with Springer, Switzerland AG, 2018. ISBN 978-3-319-93556-0.*
 59. **F. Al-Turjman**, single author of a book titled: “Smart Things & Femtocells: From Hype to Reality”, *Published with Taylor and Francis, CRC, New York, 2018. ISBN 9781138593893.*
 60. **F. Al-Turjman**, single author of a book titled: “Multimedia-enabled Sensors in IoT: Data Delivery & Traffic Modelling”, *Published with Taylor and Francis, CRC, New York, 2018. ISBN 978-0-8153-8711-4.*
 61. **F. Al-Turjman & A. Radwan**, Edited eBook: “Internet of Things: Applications and Paradigms”, *to be published with Avid Science, Berlin, Germany, 2018.*
 62. **F. Al-Turjman**, single author of a book titled: “Wireless Sensor Networks: Deployment Strategies for Outdoor Monitoring”, *Published with Taylor and Francis, CRC, New York, 2018. ISBN 9780815375814.*
 63. **F. Al-Turjman**, single author of a book titled: “Cognitive Sensors & IoT: Architecture, Deployment, and Data Delivery” *Published with Taylor and Francis, CRC, New York, 2017. ISBN 978-1-138-10229-3.*

Book chapters

1. R Salama, S. Alturjman, **F Al-Turjman**, (2024) “A survey of issues, possibilities, and solutions for a blockchain and AI-powered Internet of things”, In: F. Al-Turjman (Eds), *Computational Intelligence and Blockchain in Complex Systems*, Elsevier, France, pp. 13-2, 2024.
2. R Salama, **F Al-Turjman**, S. Alturjman, A Altorgoman, (2024) “An overview of artificial intelligence and blockchain technology in smart cities””, In: F. Al-Turjman (Eds), *Computational Intelligence and Blockchain in Complex Systems*, Elsevier, France, pp. 13-2, 2024
3. R Salama, **F. Al-Turjman**, “Blockchain Applications and Benefits in Cloud Computing” a book chapter in a book titled: “AIoT and Smart Sensing Technologies for Smart Devices”, 127-139, Published with *IGI Global*, 2024.

4. R Salama, **F. Al-Turjman**, “A Description of How AI and Blockchain Technology Are Used in Business”, a book chapter in a book titled: “AloT and Smart Sensing Technologies for Smart Devices”, 1-15, Published with *IGI Global*, 2024.
5. R Salama, **F. Al-Turjman**, “An Overview of Blockchain Applications and Benefits in Cloud Computing”, a book chapter in a book titled: “AloT and Smart Sensing Technologies for Smart Devices”, 66-76, Published with *IGI Global*, 2024.
6. R. Salama, **F. Al-Turjman**, “Blockchain Technology, Artificial Intelligence, and Big Data in Education”, a book chapter in a book titled: “Machine learning and the Internet of Things in Education: Models and Applications” Published with *Springer, Switzerland AG*, 2023. DOI : 10.1007/978-3-031-42924-8.
7. R. Salama, **F. Al-Turjman**, “Sustainable Education Systems with IoT Paradigms”, a book chapter in a book titled: “Machine learning and the Internet of Things in Education: Models and Applications” Published with *Springer, Switzerland AG*, 2023. DOI : 10.1007/978-3-031-42924-8.
8. A. Hussain, B. Dawood, C. Altrjman, S. Alturjman, **F. Al-Turjman**, “Application of artificial intelligence and information and communication technology in the grid agricultural industry: business motivation, analytical tools, and challenges”. In: *Sustainable Networks in Smart Grid book*. Elsevier, France, 2022.
9. A. Devi, S. Nadar, R. Jain, **F. Al-Turjman** (2021), “Use of Artificial Intelligence in Pharmacovigilance for Social Media Network”, a book chapter in a book titled “Leveraging Artificial Intelligence in Global Epidemics”, *Published with Elsevier*, France, 2021.
10. **F. Al-Turjman** (2019), “Edge Computing: From Hype to Reality Preface”, a book chapter in a book titled “Edge Computing: From Hype to Reality”, Published with *Springer, Switzerland AG*, 2019. ISBN: 978-3-319-99060-6.
11. **F. Al-Turjman** (2019), a book chapter in a book titled "Transportation and Power Grid in Smart Cities: Communication Networks and Services", *published by John Wiley, UK*, 2018. Eds. H. T. Mouftah, M. Erol-Kantarci, M. H. Rehmani. ISBN: 978-1-119-36008-7.
12. **F. Al-Turjman**, C. Altrjman, (2019) “Smart Homes in the Crowd of IoT-based Cities”. In: **F. Al-Turjman** (Eds), *Intelligence in IoT-enabled Smart Cities*. *Taylor and Francis, CRC*, New York, 2019.
13. **F. Al-Turjman**, C. Altrjman, (2019) “Energy Consumption Monitoring in IoT-based Smart Cities”. In: **F. Al-Turjman** (Eds), *Intelligence in IoT-enabled Smart Cities*. *Taylor and Francis, CRC*, New York, 2019.
14. **F. Al-Turjman**, S. Alturjman, (2019) “Intelligent UAVs for Multimedia Delivery in Smart-Cities’ Applications”. In: **F. Al-Turjman** (Eds), *Intelligence in IoT-enabled Smart Cities*. *Taylor and Francis, CRC*, New York, 2019.
15. **F. Al-Turjman**, S. Alturjman, (2019) “Intelligent Positioning for Precision Agriculture (PA) in Smart-cities”. In: **F. Al-Turjman** (Eds), *Intelligence in IoT-enabled Smart Cities*. *Taylor and Francis, CRC*, New York, 2019.

16. **F. Al-Turjman**, S. Alturjman, (2019) "Intelligent IoT for Plant Phenotyping in Smart-cities' Agriculture". In: F. Al-Turjman (Eds), Intelligence in IoT-enabled Smart Cities. *Taylor and Francis, CRC*, New York, 2019.
17. **Al-Turjman F.**, Ever E., (2019) Performability in Internet of Things Preface. In: Al-Turjman F. (eds) "Performability in Internet of Things", *Published with Springer*, Switzerland AG, 2018. ISBN 978-3-319-93556-0.
18. Ulsar U.D., Celik G., Turk E., **Al-Turjman F.**, Guvenc H. (2019) Practical Performability Assessment for ZigBee-Based Sensors in the IoT Era. In: Al-Turjman F. (eds) Performability in Internet of Things. *EAI/Springer Innovations in Communication and Computing*. Springer, Switzerland AG, 2019. ISBN 978-3-319-93556-0.
19. **F. Al-Turjman**, H. Hassanein, and M. Ibnkahla, a book chapter titled: "Cognitive Diversity Routing" in the "Wireless Sensor Networks: A Cognitive Perspective", *Published with Taylor and Francis, CRC*, New York, 2013. ISBN-13: 978-1-4398-5281-1.
20. **F. Al-Turjman**, "Digital Convergence" track of the "Future Information Technology, Application, and Service", Springer 2012. ISBN: 978-94-007-5063-0.

Patents

- S. Al-Harbi, F. Noor, and **F. Al-Turjman** (2009), March DSS: Memory Diagnostic Test, No. 20090199057, patent published in 2009. (MSc. Work)
- S. Al-Hadhoud, A. Alhudhoud, F. Noor, **F. Al-Turjman**, M. Ahmed, M. Hussain, R. Abdulwahab, A. Al-Naki, S. Al-Harbi, R. Al-Oufan, and H. Al-Ajeel (2008), Flipping Trash Can, No. 20080203091, patent published in 2008. (MSc. Work)

Google Scholar - Citation indices

	All	Since 2019
► Citations	26299	22143
► h-index	85	77

WoS - Citation indices

	All
► Citations	10017
► h-index	55

Professional Activities & Services

Editor in Chief

- Cloud Computing and Data Science Journal, [Cloud Computing and Data Science](#)
- CRC, Taylor and Francis Book Series “*Distributed Systems: Challenges, Architectures, Algorithms, and Applications*”.
- NEU Journal for AI and IoT [NEU Journal for Artificial Intelligence and Internet of Things](#)
- CRC, Taylor and Francis Book Series “*Innovations in Intelligent Internet of Everything*”
<https://www.routledge.com/Innovations-in-Intelligent-Internet-of-Everything-IoE/book-series/IOE>
- IET Book Series “*Applied AIoT*” https://iot.neu.edu.tr/wp-content/uploads/sites/106/2022/03/17/AIoT_Book_Series-flyer.pdf
- Springer Book Series “*AIoT Innovations*” <https://www.springer.com/series/16680>

Lead Guest Editor/ Associate Editor in refereed journals

- *Journal of Digital Transformation*
- *IEEE Communications Surveys & Tutorials* (IF 23.7)
- Elsevier SCS (IF 5.62)
- Elsevier COMCOM
- Elsevier MEASUR
- Elsevier CSR
- Elsevier Internet of Things
- Elsevier International Journal of Intelligent Networks
- Springer Personal and Ubiquitous Computing
- Springer Human-centric Computing and Information Sciences
- Springer EURASIP Journal on Wireless Communications and Networking
- Springer MONET
- MDPI Sensors
- IET Wireless Sensor Systems
- Wiley Expert Systems
- Wiley&Hindawi Wireless Communications and Mobile Computing
- IGI Journal of Organizational and End User Computing (JOEUC)

Curriculum development

- 2019-present: participating in developing grad/undergrad computer engineering program at Near East University, Nicosia, Cyprus
- 2017-present: participating in developing grad/undergrad computer engineering program at Antalya Bilim University (ABU), Antalya, Turkey.
- 2015-2017: participating in developing grad/undergrad computer engineering program at Middle East Technical University (METU), North Cyprus.
- 2014-2015: participating in developing grad/undergrad computer engineering program at Akdeniz University, Antalya, Turkey.
- 2013-2014: participated in developing grad/undergrad computer engineering program at University of Guelph, Canada.

Graduate Supervision

- 2021-present: Supervising/ Co-supervising 25 MSc. and 19 PhD. students at NEU University, North Cyprus and other universities worldwide.
- 2021-2022: Supervising/ Co-supervising 7 MSc. and 8 PhD. students at NEU University, North Cyprus.
- 2019-2021: Supervising/ Co-supervising 3 MSc. and 3 PhD. students at NEU University, North Cyprus.
- 2016-2018: Co-supervising 1 MSc. and 1 PhD. students at METU University, North Cyprus.
- 2015-2018: Co-supervising 1 MSc. and 1 PhD. students at METU University, North Cyprus.
- 2014-2018: Co-supervising 1 MSc. and 2 PhD. students at Akdeniz University, Antalya, Turkey.
- 2015-2018: Co-supervising 2 Postdoctoral Fellows at METU University, North Cyprus.
- 2013-2016: Supervising 1 Ph.D. student at Queen's University, Canada.
- 2013-2014: Supervising 2 visiting Postdoctoral Fellows at the University of Guelph, Canada.
- 2013-2014: Supervising 1 visiting Research Associate at the University of Guelph, Canada.
- 2011-2014: Supervising/Co-supervising 1 MSc., 2 M.Eng., and 3 PhD. students at University of Guelph & Queen's University, Canada.

Advisory Committees

- 2022: involved in 7 MSc. And 5 PhD. advisory committee (as Supervisor)
- 2022: involved in 4 Associate Professors advisory committee (as Jury member)
- 2021: involved in 5 MSc. And 3 PhD. advisory committee (as Supervisor)
- 2020: involved in 3 Associate Professors advisory committee (as Jury member)
- 2020: involved in 2 MSc. And 2 PhD. advisory committee (as Supervisor)
- 2018: involved in 1 MSc. advisory committee (as Supervisor)
- 2018: involved in 2 MSc. advisory committee (as Jury member)
- 2017: involved in 1 PhD. advisory committee (as Supervisor)
- 2016: involved in 1 PhD. advisory committee (as Supervisor)
- 2015: involved in 1 PhD. advisory committee (as Supervisor)
- 2014: involved in 1 PhD., 2 M.Eng. and 1 MSc. advisory committee (as Supervisor)
- 2013: involved in 1 PhD advisory committee (as Supervisor)

Selected Grad Students

Current/former MSc. Students

- Mohamud Abdullahi Jama, Near East University, Nicosia
- Abdul Rahman Siddiqui, Near East University, Nicosia
- Paul Tonga, Near East University, Nicosia
- Osman Alhussein, Near East University, Nicosia
- Yemi Okome, Near East University, Nicosia
- Nehemiah Adeosun, Near East University, Nicosia
- Dawood Barakat, Near East University, Nicosia
- Suleeman Cabdulaahi, Near East University, Nicosia
- Bashir Abdirahman, Near East University, Nicosia
- Maram Arto, Near East University, Nicosia
- Kemal Kilic, Middle East Technical University, Nicosia

- Joel Lemayan, Antalya Bilim University, Antalya, Turkey

Current/former PhD. Students

- Abdelrahman Almomani, Near East University, Nicosia
- Naser Saleh Mohamed Naser, Near East University, Nicosia
- Mubarak Auwal, Near East University, Nicosia
- Adedoyin Hussain, Near East University, Nicosia
- Gayathri Nagasubramanian, Galgotias University, Uttar Pradesh, India
- Gurkan Celik, Akdeniz university, Turkey
- Gayathri Tilak Singh, Queen's University, Canada
- Tarek El Salti, University of Guelph, Canada

Examination Committees

- 2014-present: involved in PhD and master students examination committees at Queen's University, METU NCC, ABU, Turkey, and University of Guelph, Canada.

Research Projects

- **2024- Present: NEU Smart Tick App, Near East University, Northern Cyprus**
- **2024- Present: NEU Smart MonkeyPox App, Near East University, Northern Cyprus**
- **2024- Present: NEU Smart Bee Keeping, Near East University, Northern Cyprus (SAG-2024-I-001)**
- **2023- Present: NEU Digital Campus Project, Near East University, Northern Cyprus**
- **2023- Present: AI-Instructor Project, Ai Prof. DUX, Near East University, Northern Cyprus**
- **2022- Present: Patient Health Tracking Project, Near East University, Northern Cyprus**
- **2021-2023: VELENA Project, Near East University, Northern Cyprus**
- **2021-2022: AI and IoT in detecting the appropriate mask usage, Joint project between Near East University, Northern Cyprus and India**
- **2021-2022: NEU Smart Student Information System, Near East University, Northern Cyprus**
- **2021-2022: Blockchain-based Students Certificates Project, Near East University, Northern Cyprus**

- **2020-2022: NEU Attend APP Project, Near East University, Northern Cyprus**
- **2020-2022: NEU COVID-19 Project, Near East University, Northern Cyprus**
- **2016-20: Newton Institutional Links grants (British Council) ID-216429427 (~£97507.92):** In this research we proposed Location-based Control and Management System for Safety Warning and Emergency Rescuing Services using LTE D2D Technology in Smart cities.
- **2015-17: SRP-Inter-campus Grant, Northern Cyprus FEN-16-k-6 (~\$USD 20,000):** In this research we proposed an automated virtual profile creation framework via mobile sensory data over the Cloud.
- **2015-17: SRP Grant, Northern Cyprus FEN-16-YG-5 (~\$USD 20,000):** In this project we aim at enabling Ultra Large Scale (ULS) sensing in the green Internet of Things era.
- **2014-18: Tubitak 3001- No. 115E198, Turkey (~\$USD 30,000):** This research is investigating innovative integrated platforms and data delivery techniques to satisfy the variety of the emerging applications' requirements and user expectations in terms of interoperability, resource management and pricing. It significantly contributes to the global efforts of developing techniques and tools for the commercially-viable communication systems in the future Internet/IoT.
- **2013-18: NSERC Discovery grant, Canada (~\$USD 125,000):** This research fund aims to devise enhanced data delivery solutions that can promptly provide the Canadian telecommunications sector, both vendors and service providers, data-centric networks that enable the realization of the Future Internet (Internet of Things) ahead of our international competitors. This is a complementary project, in which I aim at connecting the unconnected objects in a data-centric fashion, where data is located by its name not by the physically hosting device of that data.
- **2013: Ministry of Transportation of Ontario, Canada (~\$USD 120,000):** This research proposes a new system in which the highway can modify the speed limits adaptively based on the weather and road conditions. This is another project that aims at realizing one particular aspect of the smart planet concept by realizing a smart highway in the next generation intelligent transportation systems. It is expected to have a remarkable impact on the safety of Ontario's highways, which is accompanied by a substantial economic gain.
- **2013: NSERC Engage grant, Canada (~\$USD 24,000):** In this project self-powered data collectors with wireless communications was utilized in providing the most benefits for the least cost in realizing Precision Agriculture (PA). We will prioritize a wireless, ease of installation and plug-and-play capabilities, resulting in a reliable solution that will increase the efficiency of the crop production throughout the proposed project. It will be a great opportunity with the Modern DSP Inc. to show up the brilliant side of utilizing modern technologies in PA.

- **2013: Startup Fund from UoG, Canada (~\$USD 30,000):** Its main purpose is to purchase on-going research equipment, and support other funding programs that require matching funds. This fund is mainly targeted to support research prior to obtaining funding from other sources. While working at the School of Engineering, University of Guelph (UoG), I had the opportunity to apply towards multiple large scales projects related to industrial and governmental applications not only in Canada; viz., *Optimized Data Delivery in the Future Internet* (NSERC Discovery'14 – Individual research project), but also outside Canada; viz., *High Capacity Wireless Sensor Networks for Precision Agriculture Applications: Theory and Implementation* (NPRP 7-1638-2-607), with a group of researchers in Qatar.
- **2009-2012:** While working at the TRL in the school of computing, Queen's University, I had the opportunity to contribute towards multiple large scales projects related to industrial and governmental applications in Canada; viz., *Screen Health Monitoring and Fault Detection using WSNs* at Syncrude Canada Inc., *WSNs for Forestry and Wildlife Monitoring* that has been supported by the Ministry of Natural Resources, Canada. I participated in writing several major grant and research proposals. These proposals were made to both governmental and industrial entities, including NSERC, Ontario Center of Excellence (OCE), Canadian Microelectronics Corporation (CMC), and Syncrude in Canada.

Conferences & International Venues

- General Chair of the IEEE International Conference on Mechatronics, IoT and Industrial Informatics, 2025, <http://www.icmiii.org/>
- Publicity chair of the 9th International Conference on Renewable Energy and Conservation (ICREC 2024), <https://www.icrec.org/index.html>
- General Chair of the IEEE International Conference on Mechatronics, IoT and Industrial Informatics, 2024. [ICMIII 2024](#)
- General Chair of the 2024 International Advances in Intelligent Robotics and Industrial Automation Symposium (AIRIA) <https://www.iairias.com/singer/Committees.html>
- The 8th International Conference on Renewable Energy and Conservation (ICREC 2023) <http://www.icrec.org/committee.html>
- Technical advisor for CRC International Conference on Advancement of Intelligent Computational Methods and Technologies, June 2023 <https://aicmt2023.delhitechnicalcampus.ac.in/>
- General Chair of the 4th IEEE International Conference on Artificial Intelligence of Things and Crowdsensing, 2023. [AloTCs 22 | Home \(aiiot.website\)](#)
- General Chair of the 4th IET International Conference on Forthcoming Networks and Sustainability, 2023. <https://aiiot.website/fones22/>
- General Chair of the 3rd IEEE International Conference on Artificial Intelligence in Everything, 2023. <https://app.neu.edu.tr/AIE22/index.html>
- General Chair of the IEEE International Conference on Artificial Intelligence of Things For Smart Societies, 2023. [AloT 23 | Home \(aiotss.pages.dev\)](#)
- General Chair of the IET International Conference on Artificial Intelligence of Things, 1 – 3 Feb., Kyrenia, 2023. [AloT 23 | Home \(icaiot.pages.dev\)](#)
- Co-General Chair of the IEEE International Conference on Mechatronics, IoT and Industrial Informatics, 2023. [ICMIII 2023](#)

- Co-Organizer of the SDG BELEDİYELER, 4 March, 2023.
- Co-Organizer of the SUSTAINABLE DEVELOPMENT GOALS, 6 March, 2023.
- Co-Organizer of the International Summit on Quality in Higher Education, 27 May, 2023.
- Session chair - 5th International Conference on Contemporary Computing and Informatics, 2022.
- Guest speaker – International Seminar on Climate Change and Use of Machine Learning for Climate Change Assessment at the Energy Environment and Water Research Center (ENÇESU) of Near East University, Nicosia, 2022.
- Keynote speaker – International conference on Cyprus Issues: Environmental Challenges and Energy Security, 21 – 23 Dec. 2022. NEU, THIRD INTERNATIONAL CONFERENCE ON "CYPRUS ISSUE: ENVIRONMENTAL CHALLENGES AND ENERGY SECURITY – ECES 2022"
- Co-General Chair of the 5th International Conference on Intelligent Computing (IConIC 2K22), India. <https://pecteam.in/AIP.pdf>
- General Chair of the 3rd IEEE International Conference on Artificial Intelligence of Things and Crowdsensing, 2022. AIoTCs 22 | Home (aiiot.website)
- General Chair of the 3rd IET International Conference on Forthcoming Networks and Sustainability, 2022. <https://aiiot.website/fones22/>
- General Chair of the 2nd IEEE International Conference on Forthcoming Networks And Sustainability, 2022. <https://app.neu.edu.tr/FoNeS22/index.html>
- General Chair of the 2nd IEEE International Conference on Artificial Intelligence in Everything, 2022. <https://app.neu.edu.tr/AIE22/index.html>
- Program Chair of the International Conference on Artificial Intelligence and Sustainable Computing for Smart Cities (AIS2C2), 2022 <https://aiscindia.co.in/>
- Chair for a Special Session on “Explainable AI for Computer Vision” in International Conference on Technological Advancements in Computational Sciences (ICTACS-2022). Call-for-Paper4.pdf (amity.edu)
- Program Chair for the IEEE International Conference on Smart City and Green Energy, 2022. <http://www.icscge.org/com.html>
- Publicity Chair of the 2022 7th International Conference on Renewable Energy and Conservation (ICREC 2022) **ICREC 2022**
- Technical Chair of the 2022 International Conference on Artificial Intelligence and Autonomous Robot Systems (AIARS 2022)
- General Chair of the 2nd IEEE International Conference AIoT, 2021. AIoT | Home (sci-conf.com)
- Program Chair of the IEEE 9th International Conference on Smart City and Informatization (iSCI), 2021. IEEE Xplore - Conference Table of Contents
- General Chair of the 2nd International Symposium on Artificial Intelligence in Internet of Everything, 2021. AIoE | Home (sci-conf.com)
- General Chair of the 2nd International Conference FoNeS-IoT, 2021. FoNeS-IoT | Home (sci-conf.com)
- General Chair of the 1st IEEE International Conference AIoT, 2021. AIoT | Home (sci-conf.com)
- Publication Chair of the International Conference on Computing and Communication Networks (ICCCN-2021))
- Program Chair for the IEEE International Conference on Smart City and Green Energy, 2021. ICSCGE2021
- Keynote speaker - <https://securityiot.eai-conferences.org/2021/>
- Keynote speaker - International webinar on Embedding Intelligence across IoT

- TPC Co-Chair of the International Conference on Artificial Intelligence and Sustainable Computing for Smart Cities (AIS2C2), 2021 <http://aiscindia2021.com/>
- General Co-Chair of the International Conference on Advancements in Communication and Computational Technologies, 2021 [ICACCT-2021 \(icacct-cu.com\)](http://icacct-2021.com)
- TPC Co-Chair of International Conference On Computing And Machine Intelligence, 2020 - <https://icmi.aiplustech.org/committees.html>
- General Chair of the EAI/Springer International Conference AISCOVID19, 2020.
- General Chair of the EAI/Springer International Conference FoNeS-IoT, 2020.
- General Chair of the International Symposium on Artificial Intelligence in Everything, 2019.
- Publications' General Chair of the IEEE LCN 2018
- Workshops' General Chair of the IEEE LCN 2017: <http://www.ieeelcn.org/Workshops.html>
- General Chair of the 2016: [Smart Cities and Smart Mobility Platforms symposium](#) in IEEE IWCMC'16.
- Students Grant Chair of the IEEE LCN 2016: http://www.ieeelcn.org/Committees_Org_2016.html
- Registration chair of the 2015: [IEEE Local Computer Networks](#) (LCN'15).
- Registration chair of the 2014: [IEEE Local Computer Networks](#) (LCN'14).
- Co-Chair of the 2014: [Wireless Sensor Networks Symposium](#), in IEEE IWCMC'14
- Chair of the 2013: [Wireless Local Networks](#), in conjunction with IEEE LCN'13
- Organizer of the 2012: [Smart vehicles in the IoT era](#), School of Computing, Queen's University.
- TPC-Chair of the 2012: [Green Internet of Things](#), in conjunction with IEEE Globecom'12
- Co-Chair of the 2012: [Wireless Local Networks](#), in conjunction with IEEE LCN'12
- Co-Chair of the 2012: [Integrated Enabling Technologies](#), in conjunction with MUSIC'12

Conference Technical Program Committee Member

- 2018: IEEE International Global Communications Conference (GLOBECOM)
- 2015: IEEE International Conference on Machine Learning and Applications
- 2015: International Conference of the Jangjeon Mathematical Society (ICJSM)
- 2012'13'14'15'16'17'18: IEEE Local Computer Networks Conference (LCN)
- 2014: IEEE International Conference on Computer Communications (INFOCOM)
- 2014: IEEE Wireless Communications & Networking Conference (WCNC)
- 2014: IEEE International Wireless Communications and Mobile Computing (IWCMC)
- 2013: IEEE International Global Communications Conference (GLOBECOM)
- 2012'13: IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)
- 2012'13: IEEE International Conference on Communications (ICC)
- 2010'11'12: IEEE International Global Communications Conference (GLOBECOM)
- 2012: IEEE Future Information Technology (FutureTech)
- 2011: IEEE Symposium on Computers and Communications (ISCC)
- 2011: IEEE MAC protocols, Systems, and applications (MASS)

Book Referee

- Since 2020: The editor in chief for the Springer **AIoT Innovation** Book Series <https://www.springer.com/series/16680>

- Since 2010: Referee for a number of top book publishers including Wiley & Sons, Springer, CRC Press, etc.

Journal Referee

- Since 2007: Referee for a number of top journals including, IEEE Transactions on Mobile Computing, IEEE Transactions on Vehicular Technology, IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, Journal of Computer Communications, Elsevier, and Journal of Parallel and Distributed Computing, Elsevier.

Conference Referee

- Since 2007: Referee for major conferences including, IEEE International Conference on Computer Communications (INFOCOM), IEEE Global Communications (GLOBECOM), IEEE International Conference on Communications (ICC), IEEE International Symposium on Computers and Communications (ISCC), IEEE International Wireless Communications and Mobile Computing (IWCMC), IEEE Local Computers and Networks (LCN), IEEE Wireless Communications and Networking Conference (WCNC), IEEE MAC protocols, Systems, and applications (MASS), IEEE Future Information Technology (FutureTech), and IEEE Mobile, Ubiquitous, and Intelligent Computing (MUSIC).

University Committee Services

- 2019 - Present: Member of the Graduate Committee at the Near East University, Nicosia, Turkey.
- 2017 - 2019: Member of the Graduate Committee at the Antalya Bilim University, Antalya, Turkey.
- 2014 - 2015: Member of the Graduate Committee at the Akdeniz University, Antalya, Turkey.
- 2013 – 2014: Member of the Graduate Committee at the School of Engineering, University of Guelph.
- 2013 – 2014: Member of the Computer Committee at the School of Engineering, University of Guelph.
- 2005 – 2007: Member of the faculty and computer engineers' hiring committee at the college for women, Kuwait University.

Professional Memberships

- 2011 - 2014: Sprouts Sensor Platform Team
- 2008 - 2011: Monitoring Natural Resources Group
- 2007 - present: Wireless Sensor Networks Group @ TRL, Queen's University
- 2007 - present: IEEE Communication Society (ComSoc)
- 2007 - present: Association for Computing Machinery (ACM)
- 2005 - present: Institute of Electrical and Electronics Engineers (IEEE)

Referees

- Prof. Hossam Hassanein, <http://www.cs.queensu.ca/~hossam>
Professor and Director, Telecommunications Research Lab
School of Computing, Queen's University, Kingston, Ontario, Canada, K7L 3N6
Phone: 1-613-533-6052, Fax: 1-613-533-6513
Email: Hossam@cs.queensu.ca
- Prof. Damla Turgut, <http://www.cs.ucf.edu/~turgut>
Professor, Department of Electrical Engineering and Computer Science,
University of Central Florida, Orlando, FL 32816-2362,

Phone: 1- 407-823-6171, Fax: 1- 407-823-5835

Email: turgut@eecs.ucf.edu

- Prof. Aboelmagd Noureldin, <http://www.rmc.ca/aca/ece-geil/per/noureldin-a-eng.asp>
Associate Professor, Department of Electrical and Computer Engineering,
Royal Military College of Canada P.O.Box 17000 STN Forces Kingston, Ontario, Canada, K7K7B4
Phone: 1-613-541 6000 Ext. 6366, Fax: 1-613-544 8107
Email: noureldin-a@rmc.ca

- Prof. Abdelhamid Taha, <http://www.abdelhamidtaha.com/>
Assistant Professor, College of Engineering,
Al Faisal University, Riyadh, KSA
Phone: 1-966-1-2157757, Fax: 1-613-533-6513
Email: hamid.taha@gmail.com

- Prof. Hussein Mouftah, <http://www.site.uottawa.ca/~mouftah>
Canada Research Chair and Distinguished University Professor
School of Information Technology and Engineering, University of Ottawa,
800 King Edward Avenue, Ottawa, Ontario, Canada, K1N 6N5
Phone: 1-613-562-5800 ext. 2173, Fax: 1-613-562-5664
Email: mouftah@uottawa.ca