

Curriculum Vitae

Prof. Abdulsattar Mohammed Khudhur Abdulrahman Agha

Professor, Northern Technical University, Mosul, Iraq

Mobile: +964-7701734361 (Telegram / WhatsApp)

Emails: Abdulsattarmk@ntu.edu.iq | abdulsattarmk2@gmail.com

Profiles:

- NTU: <https://staff.ntu.edu.iq/abdulsattarmk>
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=wPXOA9cAAAAJ>
- ResearchGate: https://www.researchgate.net/profile/Abdulsattar_Khidhir3
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58619526200>
- ORCID: <http://orcid.org/0000-0001-6710-0987>
- Publons: <https://publons.com/researcher/1732991/abdulsattar-khidhir/>

Education

Ph.D. in Communications Engineering, University of Mosul, Iraq, 1996–2000

Thesis: "Investigation of Using Electroencephalography Signals in Human-Machine Communication Systems"

M.Sc. in Electronics and Communications Engineering, University of Mosul, Iraq, 1987–1989

Thesis: "Investigation into Multipath Interference Using Long Wavelength Holographic Techniques"

B.Sc. in Electronics and Communications Engineering, University of Mosul, Iraq, 1977–1981

Professional Experience

Current: Lecturer , Department of Networks and Computer Software, Polytechnic College Mosul , Northern Technical University.

2020-2025:

- Lecturer, Department of Computer Systems, Mosul Technical Institute
- Lecturer, Department of Networks and Computer Software, Mosul Technical Institute

2018 – 2020: Northern Technical University, Mosul, Iraq

- Professor and Director, Computer Center

- Consultant in Network and Communication Infrastructure
- Chair and Member of Multiple Administrative and Scientific Committees

1991 – 2018: Mosul Technical Institute, Iraq

- Lecturer, Department of Computer Systems
- Director, Internet Unit
- Consultant for Network and Communication Infrastructure

1982 – 1991: Scientific Research Council, Baghdad, Iraq

- Engineer at National Astronomical Observatory
- Researcher, Electromagnetic Wave Propagation Department
- Designer, Space Research Center (Design Team Member)

1989 – 2010 (Part-Time): Al-Mishkat Institute for Computers

- Engineer, Lecturer, and Director
- Computer Maintenance (Hardware and Software)
- Training and Technical Supervision

Programming Experience

Extensive programming experience since 1977 in:

- Fortran IV, Fortran 77, Fortran 90
- Basic, GW-Basic, Quick Basic, Visual Basic
- Assembly (8080/85, Z80, x86)
- C/C++, Visual C++
- HTML, Perl, PHP, JavaScript, MySQL
- MATLAB, Maple
- ArcGIS, Global Mapper, ERDAS, AutoCAD

Training and Certifications

- CCNA 1 & 2 (Instructor Level), Cisco, Mosul, Iraq – July 2006
- IT Essentials (Instructor Level), Cisco, Mosul, Iraq – Oct 2007
- Computer Systems for Iraqi National Astronomical Observatory, DEC, Germany – Feb–Dec 1983
- CAMAC System for Radio Telescope Control, MBB, Germany – Jan 1984
- Receiver Systems for Radio Telescopes, MBB, Germany – Jun–Sep 1984
- Networking, GTZ, Egypt – Jan 2009

Teaching Experience

Taught B.Sc., M.Sc., and Ph.D. courses in:

Operating Systems, Software Engineering, Artificial Intelligence, Optimization, Neural Networks & Fuzzy Logic,

Distributed Systems, Computer Networks, Web Programming, Genetic Algorithms, Electronic Computer Circuitry, GIS, Computer-Aided Cartography, Satellite Image Processing, Modeling and Simulation, Object-Oriented Programming, Differential Equations, Software Tools, and IT Essentials.

Research Interests

- Computational Astronomy
- Microwave Propagation (Engineering and Numerical Methods)
- Solid-State Modeling
- Distributed Systems Design
- Computer Security
- Pattern Recognition
- Virtual Manufacturing
- Distance Education
- Computer Control Systems

Postgraduate Supervision

Supervised numerous M.Sc. and Ph.D. theses in fields including: Robotics, Speaker Identification, Embedded Software and FPGA, Mobile Communication, Image and Video Processing, Distributed Systems Programming, Evolutionary Programming, Virtual Universities, CAD, UPS Systems, Distributed Databases, Home Automation, Software Engineering, Arabic Speech Recognition, Computer Vision, FPGA-based Speech Recognition and Encryption, GIS, Computer Security, Virtual Manufacturing, Coordinate Systems, and Climate Prediction.

Selected Publications

1. Process Migration Based on Memory-to-Memory Mechanism
2. Design and Implementation of a CPU-Bound Process Migration in Windows 7
3. FPGA-Based Edge Detection Using a Modified Sobel Filter
4. Home Automation Management with WLAN (802.11g) and RF Remote Control
5. Design and Implementation of a Virtual University Prototype: Technology Requirements and Evaluation
6. Real-Time Arabic Speech Recognition

7. Holographic Investigation of Multipath in Line-of-Sight Radio Links
8. Seeing Effects in the Core of Elliptical Galaxies
9. Analysis of the Requirements Phase as a Step for Software Engineering Automation
10. Estimation of the EEG Highest Predictive Channel for Mental Tasks
11. Computer Monitoring and Security System Using Bluetooth Technology
12. Improving the Reliability of Object Recognition Based on Template Matching
13. Geometric Analysis of Images for 3D Model Reconstruction
14. Use of Radon Transform in Orientation Estimation of Printed Text
15. Management of Electrical Power Consumption Using Network Processor
16. Multi-Agent Network-Based Virtual Manufacturing Using Oracle Net Services
17. Priority Dispatching Rules for Virtual Manufacturing Using Genetic Algorithms
18. Multi-Agent-Based Intelligent Information System for Virtual Manufacturing
19. Holographic Prediction of Antenna Height and Ground Reflection in LOS Radio Links
20. Home Automation Management with WLAN (802.11b) and RF Remote Control

Other publications titles are available at:

<https://scholar.google.com/citations?hl=en&user=wPX0A9cAAAAJ>