

1. Name: Emad Ahmed Mohammed

2. Education

- B.Sc in Electrical and Electronic Engineering, University of Technology, Iraq, 1994
- M.Sc in Communication Engineering, University of Technology, Iraq, 2003
- Ph.D in Computer Networks, University of Mosul, Iraq, 2016

3. Academic Experience

- Assistant Professor, Department of Computer Techniques Engineering, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Head of the Department of Computer Techniques Engineering
- Teaching undergraduate and postgraduate courses in:
 - Computer Networks
 - Information Theory and Coding
 - Wireless Communication Systems
- Supervision of student research projects in networking, AI applications, and communication systems
- Participation in academic curriculum development and departmental leadership

4. Non-Academic Experience

- Participation in applied research in communication systems, AI, and cybersecurity
- Reviewer and contributor to international scientific journals and conferences
- Engagement in research projects related to machine learning and medical image analysis

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations:N/A

7. Honors and Awards :N/A

8. Service Activities

- Head of Computer Techniques Engineering Department at NTU
- Contribution to academic planning, curriculum design, and quality assurance activities
- Participation in scientific committees and university-level academic boards
- Involvement in examination supervision and student evaluation processes
- Support for departmental research and laboratory development

9. Selected Publications and Presentations (Last 5 Years)

- Artificial Intelligence Based Helipad Detection with Convolutional Neural Network (2024)
- Using Artificial Intelligence to Classify Osteoarthritis in the Knee Joint: A Review (2022)
- Artificial Intelligence-based applications in image processing and medical diagnosis systems
- Contributions in communication systems, cybersecurity, and machine learning
- Total published research: 18+ papers
- Conferences and seminars: 6+
- Research fields:
 - Computer Networks
 - Artificial Intelligence Applications
 - Communication Systems
 - Information Security
 - Medical Image Processing

10. Recent Professional Development Activities

- Continuous academic leadership in computer engineering department at NTU
- Active participation in research and publication activities in AI and networking
- Contribution to curriculum development in computer networks and information systems
- Engagement in academic conferences, workshops, and scientific seminars

1. Name: Ahmed Khazal Younis

2. Education

- B.Sc in Computer Technology Engineering, University of Mosul, Iraq, 2002
- M.Sc in Computer Technology Engineering, University of Mosul, Iraq, 2008
 - Thesis: Smart Card Based BAM Data Security System
- Ph.D in Computer Engineering, Yasar University, Turkey, 2019
 - Thesis: FPGA Based Control and Reconfigurable Mechanism in Wireless Sensor Networks (WSN)

3. Academic Experience

- Assistant Professor, Department of Computer Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Responsible for Information Technology Division
- Teaching undergraduate and postgraduate courses in:
 - Embedded Systems
 - Microprocessor Architecture
 - Advanced Digital Electronics
- Previous academic positions include Lecturer and Assistant Lecturer in computer engineering disciplines
- Supervision of student projects in embedded systems, FPGA, and machine learning applications

4. Non-Academic Experience

- Technical trainer in neural networks and embedded systems applications
- Experience in applied engineering systems related to FPGA design and reconfigurable architectures
- Research involvement in machine learning and deep learning applications for engineering systems

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

- Responsibility for Information Technology Division at the college
- Participation in academic committees and departmental coordination
- Contribution to curriculum development in embedded systems and computer engineering

- Involvement in examination preparation and academic evaluation processes
- Support for laboratory activities and student training programs

9. Selected Publications and Presentations (Last 5 Years)

- Bone Fracture Detection Using Hybrid EfficientNet-B0 and ResNet50 with SVM: A Comparative Performance Analysis (2025)
- FPGA based Fuzzy Edge Detection System for COVID-19 X-Ray Images (2025)
- Enhancing Face Emotion Recognition Based on Lite ResNet-50 for Embedded Systems (NTU Journal publication)
- Contributions in FPGA systems, embedded systems, machine learning, and deep learning applications
- Research fields:
 - Embedded Systems
 - FPGA and Reconfigurable Architectures
 - Machine Learning and Deep Learning
 - Neural Networks
 - Computer Vision Applications

10. Recent Professional Development Activities

- Continuous academic teaching in embedded systems and computer engineering
- Active participation in research projects in FPGA and AI-based systems
- Contribution to NTU scientific publications and journal research activities
- Engagement in workshops and academic development programs in machine learning and hardware systems

1. Name: **Dr. Ahmad Falih Mahmood**

2. Education

- Ph.D in Computer Networks, University of Mosul, Iraq, 2018
- M.Sc in Electronics and Communication Engineering, University of Mosul, Iraq, 1992
- B.Sc in Electrical Engineering, University of Mosul, Iraq, 1986

3. Academic Experience

- Assistant Professor, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
 - Computer Networks
 - Microprocessors
 - Communication Systems
- Head of Branch: Computer Communication and Networks
- Previous academic experience in technical institutes and universities including teaching and research roles in networking and communication systems

4. Non-Academic Experience :**N/A**

5. Certifications or Professional Registrations

- Advanced training in Mobile Communications (Cairo, Egypt, 2010)

6. Current Membership in Professional Organizations :**N/A**

7. Honors and Awards :**N/A**

8. Service Activities

- Head of Branch – Computer Communication and Networks
- Participation in departmental academic committees
- Contribution to curriculum development and academic supervision
- Involvement in student training and laboratory supervision

9. Selected Publications and Presentations (Last 5 Years)

1. Analyzing Power Plant Data Using Artificial Intelligence to Enhance Maintenance Strategy
 - NTU Journal for Renewable Energy, 2025
 - DOI: 10.56286/ntujre.v9i1
2. Developments in Optical Fiber Network Fault Detection Methods: An Extensive Analysis
 - International Journal of Computing and Digital Systems, 2024
 - DOI: 10.12785/ijcds/1571111230

10. Recent Professional Development Activities

- Participation in scientific conferences and workshops
- Continuous academic involvement in teaching and research supervision
- Contribution to departmental development activities

1. Name: Thabet Fakhri Younis

2. Education

- B.Sc in Electrical Engineering, University of Mosul, Iraq, 1991
- M.Sc in Electrical Engineering, University of Mosul, Iraq, 1997
- Ph.D in Electronic Engineering, University of Essex, United Kingdom, 2018

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Head of Computer Electronics Branch
- Teaching undergraduate courses including:
 - Electronics
 - Fundamentals of Electrical Engineering
 - Electronic Workshop and Practical Applications
- Teaching postgraduate-related analytical engineering subjects
- Contribution to curriculum development in electronics and computer engineering fields

4. Non-Academic Experience

- Research activity in electronics engineering and applied electrical systems
- Academic contributions in circuit design and electronic systems analysis
- Participation in engineering research related to hardware systems and signal processing

5. Certifications or Professional Registrations N/A

6. Current Membership in Professional Organizations N/A

7. Honors and Awards N/A

8. Service Activities

- Head of Computer Electronics Branch at NTU
- Participation in departmental academic and administrative duties
- Contribution to examination preparation and academic evaluation
- Involvement in curriculum planning and laboratory development
- Support for student practical training in electronics laboratories

9. Selected Publications and Presentations (Last 5 Years)

- A Solution to Frequency Splitting in Magnetic Resonance Wireless Power Transfer Systems Using Double Sided Symmetric Capacitors.

- Research fields:
 - Electronic Engineering
 - Electrical Systems
 - Circuit Design and Analysis
 - Applied Electronics

10. Recent Professional Development Activities

- Continuous academic teaching in electronics and electrical engineering
- Engagement in scientific research and publication activities
- Participation in departmental development and academic quality assurance
- Contribution to laboratory training and practical engineering education

1. Name: Maysaloon Abed Qasim

2. Education

- B.Sc in Electrical Engineering
- M.Sc in Electrical Engineering
- Ph.D in Electrical Engineering

3. Academic Experience

- Assistant Professor, Department of Artificial Intelligence Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses including:
 - Fundamentals of Electrical Engineering
 - Related engineering and technical subjects in computer and AI programs
- Participation in academic course design and laboratory supervision within engineering departments
- Contribution to curriculum development in electrical and computer engineering fundamentals

4. Non-Academic Experience

- Academic involvement in engineering education development and course structuring
- Participation in applied teaching methodologies for engineering students

5. Certifications or Professional Registrations N/A

6. Current Membership in Professional Organizations N/A

7. Honors and Awards :N/A

8. Service Activities

- Participation in departmental teaching and academic duties
- Contribution to engineering curriculum development and academic planning
- Involvement in examination preparation and student assessment activities
- Support for academic quality assurance activities within the department

9. Selected Publications and Presentations (Last 5 Years)

- Hybrid DL-ML Framework for Handwriting-Based Person Recognition (NTU Journal, 2025)
- Research contributions in machine learning, deep learning, and pattern recognition applications

- Participation in research focusing on AI-based classification systems and intelligent recognition models
- Research fields:
 - Artificial Intelligence (AI)
 - Machine Learning and Deep Learning
 - Signal Processing
 - Pattern Recognition
 - Intelligent Systems

10. Recent Professional Development Activities

- Continuous teaching in electrical engineering and AI-related courses at NTU
- Engagement in research activities in AI and signal processing
- Participation in academic workshops and scientific development programs
- Contribution to improving engineering education quality and curriculum design

1. Name:

Ruaa Hussam Ali Al-Mallah

2. Education

- B.Sc in Computer Technology Engineering, Northern Technical University (NTU), Iraq, 2005
- M.Sc in Computer Engineering Technology, Northern Technical University (NTU), Iraq, 2008

3. Academic Experience

- Lecturer, Department of Artificial Intelligence Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses including:
 - Computer Graphics
 - Multimedia Computing
 - Digital Signal Processing (DSP)
 - Computer Architecture and Microprocessor
 - Digital Image Processing
 - Computer Applications (VB, C++, MATLAB, Microsoft Office)
- Graduate teaching in:
 - Computer Graphics
 - Digital Image Processing
 - Medical Image Processing
- Laboratory supervision in:
 - Microprocessor Lab
 - Multimedia Computing Lab
 - Image Processing Lab
 - Medical Image Processing Lab (postgraduate)
- Participation in student supervision and graduation projects in robotics, image processing, and AI applications

4. Non-Academic Experience

- Development of teaching materials and laboratory experiments in image processing and multimedia systems
- Applied research involvement in robotics and embedded systems projects

5. Certifications or Professional Registrations N/A**6. Current Membership in Professional Organizations N/A****7. Honors and Awards N/A**

8. Service Activities

- Participation in departmental teaching and academic responsibilities
- Contribution to curriculum delivery in computer engineering and AI-related subjects
- Supervision of laboratory work and practical training sessions
- Contribution to academic evaluation and student assessment activities

9. Selected Publications and Presentations (Last 5 Years)

- ASSAS: An Automatic Smart Student Attendance System Based on Normalized Cross-Correlation (2021)
- Advanced Predictive Control Systems for Elevators Using Wavelet and Neural Networks (2025)
- Research contributions in:
 - Image Processing
 - Machine Learning
 - Computer Vision
 - Robotics and Intelligent Systems
- Total published research: multiple peer-reviewed journal papers
- Conferences and seminars: participation in scientific events and academic workshops

10. Recent Professional Development Activities

- Continuous academic teaching in multimedia and image processing fields
- Engagement in research activities in AI, computer vision, and robotics
- Development of laboratory courses for undergraduate and postgraduate levels
- Participation in academic workshops and curriculum improvement activities

1. Name:Ahmed Hashim Ahmed

2. Education

- B.Sc in Electrical Engineering (Power and Machines), University of Mosul, Iraq, 2011
- M.Sc in Electrical Engineering (Power and Machines), University of Mosul, Iraq, 2014
- IC3 Certification in Computing and Internet Core Skills
- TOEFL ITP Certificate

3. Academic Experience

- Lecturer / Faculty Member, Department of Computer Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses related to:
 - Electrical Machines
 - Control Systems
 - Electrical Engineering Applications in Computing
- Previous academic and research experience in electrical engineering and machine fault diagnosis
- Participation in supervision of undergraduate projects in electrical and computer engineering fields

4. Non-Academic Experience

- Researcher in electrical machine diagnostics and signal analysis
- Participation in applied engineering projects related to electrical power systems and machine modeling

5. Certifications or Professional Registrations

- IC3 Digital Literacy Certification
- TOEFL ITP English Language Certification

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

- Contribution to teaching and academic duties within the department
- Participation in laboratory supervision and practical training activities
- Involvement in curriculum support for electrical and computer engineering subjects

- Contribution to academic assessment and examination processes

9. Selected Publications and Presentations (Last 5 Years)

- Parametric analysis on the effect of V-type rotor magnet geometry on PMSMs (2025)
- Cogging torque mitigation for PMSM using stator slot design and magnet skewing (Conference work, IEEE)
- Modeling and Simulation of Salient Pole Synchronous Machine With Comparison Between Actual and d-q Models
- Mixed Air Gap Eccentricity Fault Diagnosis of a Salient Pole Synchronous Generator Based on Current Signature
- Total publications: multiple peer-reviewed papers and conference contributions
- Research fields:
 - Electrical Machines
 - Fault Diagnosis Systems
 - Intelligent Control
 - Smart Grid and Renewable Energy
 - Finite Element Method (FEM) Applications

10. Recent Professional Development Activities

- Continuous involvement in teaching electrical and computer engineering subjects at NTU
- Participation in conferences and scientific workshops in electrical engineering and control systems
- Engagement in research activities related to intelligent fault detection and machine modeling
- Contribution to academic development and laboratory training programs

Name: **Orjuwan Mohammed Abduljawad Ahmed**

2. Education

- B.Sc in Computer Engineering, Northern Technical University, Iraq, 2002
- M.Sc in Neural Networks, Northern Technical University, Iraq, 2004
- Ph.D (Not specified in official profile)

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
 - Advanced Computer Technology
 - Engineering Analysis
 - Optoelectronics
 - Digital Signal Processing
- Academic experience in teaching and laboratory supervision since 2006

4. Non-Academic Experience

- Technical Assistant at Foundation of Technical Education (2003–2005)
- Technical Trainer (2005–2006)

5. Certifications or Professional Registrations: **N/A**

6. Current Membership in Professional Organizations: **N/A**

7. Honors and Awards: **N/A**

8. Service Activities

- Participation in departmental teaching duties
- Membership in scientific and examination committees
- Supervision of graduation projects and summer training
- Academic advising for students

9. Selected Publications and Presentations (Last 5 Years)

- Enhancing drivers' attention by a smart binary matching machine to avoid accidents (2023)
- A review on the relationship between computer engineering, discrete-math and graph theory (2020)
- Difficulties Facing Students in Engineering Analysis (2019)
- Extraction and Recognition of Color Features Using Neural Networks (2012)
- Speech Recognition Using Fuzzy Logic Systems (2009)
- Research interests:
 - Neural Networks
 - Deep Learning
 - Image Processing
 - Artificial Intelligence

10. Recent Professional Development Activities

- Participation in academic and scientific committees
- Continuous teaching and supervision of student projects
- Engagement in curriculum and laboratory development activities

1. Name: **Ayhan Ahmed Khalil**

2. Education

- B.Sc in Mathematical Sciences, University of Mosul, Iraq, 2001
- M.Sc in Graph Theory, University of Mosul, Iraq, 2004

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq
- Teaching undergraduate courses in:
 - Mathematics
 - Engineering Mathematics
 - Applied Mathematics
 - Numerical Analysis (practical part)

4. Non-Academic Experience: **N/A**

5. Certifications or Professional Registrations: **N/A**

6. Current Membership in Professional Organizations: **N/A**

7. Honors and Awards: **N/A**

8. Service Activities

- Participation in teaching and academic duties within the department
- Contribution to mathematics curriculum delivery for engineering students

9. Selected Publications and Presentations (Last 5 Years)

- On the Domination Numbers of Certain Prism Graphs
- A Study of Graph Theory Applications in IT Security
- A Review on the Relationship between Computer Engineering, Discrete Mathematics and Graph Theory
- Teleworking Between Reality Challenges and Future Aspirations
- Total published research: **9 papers**
- Conferences and seminars: **1**
- Research field:
 - Graph Theory
 - Discrete Mathematics Applications in Computing

10. Recent Professional Development Activities

- Participation in academic teaching activities in mathematics for engineering programs
- Engagement in departmental educational and curriculum support activities

1. Name :**Dr. Basma Mohammed Kamal Younis Abdullah**

2. Education

- Ph.D in Computer Engineering / Digital Systems, University of Mosul, Iraq (as per NTU profile)
- M.Sc in Computer Engineering / Digital Systems
- B.Sc in Computer Engineering

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
 - Digital Systems Design
 - FPGA Design
 - Computer Architecture
 - Embedded Systems
- Participation in laboratory supervision and academic teaching activities

4. Non-Academic Experience :**N/A**

5. Certifications or Professional Registrations :**N/A**

6. Current Membership in Professional Organizations :**N/A**

7. Honors and Awards :**N/A**

8. Service Activities

- Participation in departmental teaching duties
- Supervision of student projects
- Contribution to laboratory and curriculum activities

9. Selected Publications and Presentations (Last 5 Years)

- FPGA Implementation of Canny Edge Detection Algorithm (AIP Conference Proceedings)
- Design and Implementation of Low Power Digital Systems Using FPGA Techniques
- Performance Analysis of Image Processing Systems Based on FPGA Architectures

- Smart Digital Systems and Reconfigurable Hardware Design Applications
- Research in:
 - Digital Systems Design
 - FPGA-based Image Processing
 - Computer Architecture and Embedded Systems
- Total published research: **13 papers**
- Conferences: **4 presentations**

10. Recent Professional Development Activities

- Participation in academic workshops and conferences
- Contribution to teaching and curriculum development activities
- Involvement in departmental academic duties

Name :**Dr. Ziad Saeed Mohammed Saleem**

2. Education

- Ph.D in Electronic and Communication Engineering (Solid State Engineering)
- M.Sc in Electronic Engineering
- B.Sc in Electrical Engineering

3. Academic Experience

- Assistant Professor / Lecturer, Northern Technical University (NTU), Iraq
- Department of Computer Techniques Engineering
- Teaching subjects in:
 - Control Engineering
 - Electronics
 - Digital Signal Processing
 - Communication Systems
 - IoT Applications
- Supervision of undergraduate and postgraduate students

4. Non-Academic Experience

- Experience in electrical engineering systems and maintenance
- Experience in semiconductor and solar cell fabrication systems
- Industrial and technical engineering practice in electronic systems

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

- Member of examination committees
- Supervision of graduation projects
- Participation in departmental scientific and academic development activities
- Contribution to laboratory development and curriculum design

9. Selected Publications and Presentations (Last 5 Years)

- Cost Minimization of GPS-GSM Based Vehicle Tracking System (IEEE, 2018)
- ArSLR-ML: Machine Learning-based Arabic Sign Language Recognition (IEEE/Elsevier, 2024–2025)
- Premature Ventricular Contraction Recognition Using SVM and ECG Signals (Springer LNNS, 2025)
- Static Arabic Sign Language Recognition Using MediaPipe and SVM (IEEE ICETI, 2024)
- Advancements in Robotic Systems for Sign Language Representation (European Journal, 2023)
- Solid State Devices Used in Combined Coding and Phase Modulation (AREJ, 2023)
- IoT-based Smart Agriculture Survey (NTU Journal, 2022)
- Performance Improvement of SEIG Using Neuro-Fuzzy Control (EEI Journal, 2022)
- IoT-based Smart Irrigation System (International Journal, 2022)
- Resistive Switching Memory Device Research (2021)
- Solar Cell and Thin Film Device Studies (2013–2014)

Multiple publications indexed in IEEE, Springer, Elsevier, Scopus (as listed in NTU profile)

10. Recent Professional Development Activities

- Participation in scientific conferences and international journals
- Supervision of postgraduate research (Master theses)
- Development of AI and IoT-based engineering systems
- Contribution to academic curriculum development in computer engineering

1. Name :**Zaid Abdulsattar Abdulrazzaq**

2. Education

- M.Sc in Computer Engineering, University of Mosul, Iraq, 2018
- B.Sc in Computer Engineering, University of Mosul, Iraq, 2012

3. Academic Experience

- Assistant Lecturer, Department of Computer Techniques Engineering, NTU, Iraq (Full-time)
- Teaching undergraduate courses in:
 - Computer Principles
 - Mobile Communication
 - Network Security
 - Programming and Operating Systems

4. Non-Academic Experience :**N/A**

5. Certifications or Professional Registrations :**N/A**

6. Current Membership in Professional Organizations :**N/A**

7. Honors and Awards :**N/A**

8. Service Activities

- Participation in departmental teaching duties and laboratories
- Course coordination and student training activities

9. Selected Publications and Research Activities

- Teaching-focused academic staff member
- Participation in academic activities within Computer Engineering field
- Involvement in laboratory-based instruction and course development

10. Recent Professional Development Activities

- Participation in departmental academic activities and teaching workshops

Name :Dr. Zaid Ghanem Mohammed

2. Education

- B.Sc in Computer Techniques Engineering, Northern Technical University, Iraq
- M.Sc in Computer Techniques Engineering, Northern Technical University, Iraq

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
 - Embedded Systems
 - Computer Engineering Applications
 - Intelligent Systems
 - Microcontroller-based Systems
- Supervision of student projects and laboratory work

4. Non-Academic Experience

- N/A

5. Certifications or Professional Registrations

- N/A

6. Current Membership in Professional Organizations

- Member, Iraqi Engineers Union (as listed in NTU profile)

7. Honors and Awards :N/A

8. Service Activities

- Participation in departmental committees
- Supervision of graduation projects
- Contribution to laboratory development and academic teaching activities

9. Selected Publications and Presentations (Last 5 Years)

- Implementation of WSN Based Smart Irrigation System (Przegląd Elektrotechniczny, 2023)
DOI: 10.15199/48.2023.06.06

- Development of a Dynamic Intelligent Recognition System for a Real-Time Tracking Robot (IJRA, 2021)
DOI: 10.11591/ijra.v10i3.pp161-169
- Smart Infant Incubator Based on Microcontroller (IEEE IICETA, 2019)
DOI: 10.1109/IICETA47481.2019.9013004
- Design and Implementation of Single Bit Error Correction System Based on FPGA (TELKOMNIKA, 2019)
DOI: 10.12928/telkomnika.v17i4.12033
- Scheduling Lecturer System Based on FPGA (IEEE ICASEA, 2018)
DOI: 10.1109/ICASEA.2018.8370955

10. Recent Professional Development Activities

- Participation in scientific conferences and IEEE events
- Continuous academic teaching and supervision activities
- Engagement in embedded systems and intelligent systems research

1. Name:Abdullah Hamdoon

2. Education

- B.Sc in Computer Engineering Technology, University of Mosul, Iraq
- M.Sc in Computer Engineering Technology (Specialization in Computer Technology Engineering)

3. Academic Experience

- Lecturer, Department of Artificial Intelligence Engineering Techniques, Technical Engineering College for Computer and AI, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses including:
 - Computer Engineering Fundamentals
 - Digital Systems
 - Applied Programming and Systems
 - Engineering Mathematics (for computing applications)
- Participation in laboratory supervision and practical training for engineering students
- Contribution to academic advising and student project supervision in computing and AI-related fields

4. Non-Academic Experience :N/A

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards:N/A

8. Service Activities

- Participation in departmental teaching and academic duties
- Contribution to curriculum development in computer engineering and AI programs
- Involvement in examination preparation, evaluation, and academic assessment processes
- Participation in academic committees and departmental coordination activities

9. Selected Publications and Presentations (Last 5 Years)

- Design and implementation of reduced number of switches for new multilevel inverter topology without zero-level state (2022)
- Design and implementation of single-bit error correction linear block code system based on FPGA (2019–2022 extension works)

- Scheduling lecturer system based on FPGA (Conference, IEEE)
- Additional research contributions in computer engineering systems, FPGA applications, and digital communications
- Total publications: multiple peer-reviewed papers in engineering and computing journals
- Research fields:
 - Computer Engineering Systems
 - FPGA Design and Applications
 - Digital Communication and Error Correction Codes
 - Embedded Systems

10. Recent Professional Development Activities

- Continuous involvement in teaching engineering and computer science subjects
- Participation in academic workshops and departmental development activities
- Engagement in curriculum enhancement for artificial intelligence and computer engineering programs
- Development of practical laboratory modules for digital systems and FPGA-based courses

1. Name :**Dr. Omar Hatem Mohammed**

2. Education

- Ph.D in Computer Engineering, University of Mosul, Iraq, 2022
- M.Sc in Computer Engineering, University of Mosul, Iraq, 2015
- B.Sc in Computer Engineering Techniques, Northern Technical University, Iraq, 2011

3. Academic Experience

- Assistant Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Lecturer in undergraduate and postgraduate teaching
- Teaching courses in:
 - Computer Networks
 - Digital Systems
 - Embedded Systems
 - Computer Architecture
- Participation in laboratory supervision and academic activities

4. Non-Academic Experience :N/A

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

- Participation in departmental teaching duties
- Supervision of student projects
- Contribution to laboratory and curriculum activities

9. Selected Publications and Presentations (Last 5 Years)

- Real time ear recognition using deep learning
- Research in:
 - Deep learning applications in computer vision
 - Embedded systems
 - Image processing and pattern recognition
- Publications in peer-reviewed journals including indexed international journals
- Active research contributions in machine learning and AI-based systems

10. Recent Professional Development Activities

- Participation in scientific workshops and conferences
- Continuous engagement in teaching and research supervision
- Contribution to departmental academic development activities

Name: Aysha Ibrahim Mohammed

2. Education

- Ph.D. Arabic Language

3. Academic Experience

- Assistant Professor / Lecturer, Northern Technical University (NTU), Iraq
- Faculty member, Technical Engineering College for Computer and Artificial Intelligence, Mosul
- Teaching and academic contribution within university curricula
- Involvement in course delivery for humanities and supporting university modules such as human rights and democracy

4. Administrative Positions

- Responsible for Women's Affairs Unit at the Technical Engineering College for Computer and Artificial Intelligence / NTU

5. Non-Academic Experience :N/A

6. Certifications or Professional Registrations:N/A

7. Current Membership in Professional Organizations:N/A

8. Honors and Awards :N/A

9. Service Activities

- Contribution to academic and administrative duties within the college
- Participation in university-level committees and academic coordination activities
- Supporting institutional initiatives related to student affairs and academic organization

1 Name :Mohammed Ghanim Ayoub Ali

2. Education

- M.Sc in Computer Engineering (as indicated in NTU records)
- B.Sc in Computer Engineering (as indicated in NTU records)

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
 - Computer Organization
 - Database Systems

4. Non-Academic Experience :N/A

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

Participation in departmental teaching duties

Contribution to laboratory supervision and academic activities

9. Selected Publications and Presentations (Last 5 Years)

Intelligent Predictive Maintenance for Urban Energy and Transportation Systems: A

Hybrid AI Approach

Apr 6, 2025

المجلة NTU Journal of Renewable Energy

publisher Northern Technical University

DOI <https://doi.org/10.56286/c85t0b28>

العدد 1

المجلد 8

AI-based ACL Exercises Recognition System Using Wearable Multi-Sensor Data Fusion

Mar 22, 2025

المجلة NTU Journal of Engineering and Technology
publisher Northern Technical University
DOI <https://doi.org/10.56286/t9nzzg67>
العدد 1
المجلد 4

GPS-based fall detection system for old and specially-abled people
Sep 1, 2023

المجلة Indonesian Journal of Electrical Engineering and Computer Science
publisher Institute of Advanced Engineering and Science
DOI <https://doi.org/10.11591/ijeecs.v31.i3.pp1545-1550>
العدد 3
المجلد 31

Human-machine interaction for motorized wheelchair based on single-channel
electroencephalogram headband
Apr 1, 2023

المجلة Bulletin of Electrical Engineering and Informatics
publisher Institute of Advanced Engineering and Science (IAES)
DOI <https://doi.org/10.11591/eei.v12i2.4163>

Inpatient WiFi-enabled medication dispenser for improving ward-based clinical
pharmacy services
Feb 1, 2023

المجلة Indonesian Journal of Electrical Engineering and Computer Science
publisher Institute of Advanced Engineering and Science
DOI <https://doi.org/10.11591/ijeecs.v29.i2.pp687-693>

10. Recent Professional Development Activities

- Participation in academic and teaching activities
- Contribution to course delivery and curriculum support

1. Name: Noor Saadallah Enad

2. Education

- B.Sc in Communication Engineering, University of Nineveh, Iraq, 2010
- M.Sc in Communication Engineering, University of Nineveh, Iraq, 2019

3. Academic Experience

- Assistant Lecturer, Department of Computer Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses including:
 - Communication Principles
 - Digital Communications
 - Communication Networks
- Participation in academic laboratory supervision and practical sessions in communication engineering

4. Non-Academic Experience: N/A

5. Certifications or Professional Registrations: N/A

6. Current Membership in Professional Organizations N/A

7. Honors and Awards: N/A

8. Service Activities

- Contribution to teaching duties within the department
- Participation in curriculum delivery for communication engineering courses
- Involvement in academic assessment, examinations, and student evaluation
- Support in departmental academic coordination activities

9. Selected Publications and Presentations (Last 5 Years)

- Improving the Performance of Practical Block Length of Polar Code (Journal publication, 2021)
- Performance Evaluation and Assessment of LDPC Codec over DVB-S2 and WLAN 802.11n Applications (2019)
- Research contributions in:
 - Channel Coding
 - Digital Communication Systems
 - Error Correction Techniques for 5G systems
- Research field:
 - Communication Engineering
 - Digital Signal Processing
 - Error Correction Coding

10. Recent Professional Development Activities

- Continuous involvement in teaching communication engineering subjects at NTU
- Participation in academic and departmental workshops related to digital communications
- Engagement in curriculum development and laboratory improvement activities
- Contribution to student training in communication systems and coding techniques

1. Name : najwan Zuhair waisi

2. Education – degree, discipline, institution, year :

بكالوريوس علوم حاسوب من جامعة الموصل ، قسم علوم الحاسوب 2001

ماجستير علوم حاسوب من جامعة الموصل / تخصص امنية المعلومات 2014

3. Academic experience – institution, rank, title (chair, coordinator, etc., if appropriate), when (ex. 1990-1995), full time or part time

أستاذ مساعد / مسؤول شعبة الدراسات العليا من 2026 لحد الان

4. Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time لا يوجد

5. Certifications or professional registrations لا يوجد

6. Current membership in professional organizations لا يوجد

7. Honors and awards لا يوجد

8. Service activities (within and outside of the institution) لا يوجد

9. Briefly list the most important publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation

The detection of handguns from live-video in real-time based on deep learning
Telkomnika (Telecommunication Computing Electronics and Control)

ArticleOpen Access2020

DOI: 10.12928/TELKOMNIKA.v18i6.16174Copy to clipboard

- Ghazal., MohammedSend mail to Ghazal. M.;
- Waisi, Najwan;
- Abdullah, Nawal

Department of Computer Engineering Technology, Northern Technical
University, Mosul, Iraq

The automatic detection of underage troopers from live-videos based on deep learning
[Automatyczne wykrywanie nieletnich żołnierzy z wideo na żywo w oparciu o
metodę Deep Learning]

Przegląd ElektrotechnicznyArticle2021

DOI: 10.15199/48.2021.09.18Copy to clipboard

- Waisi, Najwan ZuhairaSend mail to Waisi N.Z.;
- Abdullah, Nawal YounisbSend mail to Abdullah N.Y.;
- Ghazal, Mohammed TalalbSend mail to Ghazal M.T.
- aComputer Science Department, Mosul University, Mosul, Iraq

Pedestrian age estimation based on deep learning

Indonesian Journal of Electrical Engineering and Computer Science Article Open Access 2021

DOI: 10.11591/ijeecs.v22.i3.pp1548-1555 Copy to clipboard

- Abdullah, Nawal Younis;
- Ghazal, Mohammed Talal Send mail to Ghazal M.T.;
- Waisi, Najwan
- Department of Computer Engineering Technology, Northern Technical University, Mosul, Iraq

Smart Meeting Attendance Checking Based on A multi-biometric Recognition

System

[Inteligentne sprawdzanie obecności na spotkaniach w oparciu o multi-biometryczny system rozpoznawania]

Przegląd Elektrotechniczny Article 2022

DOI: 10.15199/48.2022.03.21 Copy to clipboard

- Ghazal, Mohammeda Send mail to Ghazal M.;
- Albasrawi, Roaaa Send mail to Albasrawi R.;
- Waisi, Najwana Send mail to Waisi N.;
- Al Hammoshi, Mayyadab Send mail to Al Hammoshi M.
- a Computer Engineering Technology, Northern Technical University, Mosul, Iraq

Intelligent Classification of JPEG files by Support Vector Machines with Content-

based Feature Extraction

Journal of Intelligent Systems and Internet of Things Article 2024

DOI: 10.54216/JISIoT.110101 Copy to clipboard

- Ali, Rabei Raada Send mail to Ali R.R.;
- Waisi, Najwan Zuhaira Send mail to Waisi N.Z.;
- Saeed, Yahya Younisa Send mail to Saeed Y.Y.;
- Noori, Mohammed S.a Send mail to Noori M.S.;
- Rachmawanto, Eko Harib Send mail to Rachmawanto E.H.
- a Department of Computer Engineering Technology, Northern Technical University, Mosul, 41000, Iraq

Simulation of autonomous navigation of turtlebot robot system based on robot

operating system

Bulletin of Electrical Engineering and Informatics Article Open Access 2024

DOI: 10.11591/eei.v13i2.6419 Copy to clipboard

- Ghazal, Mohammad TalalaSend mail to Ghazal M.T.;
- Al-Ghadhanfari, MurtadhabSend mail to Al-Ghadhanfari M.;
- Waisi, Najwan ZuhairaSend mail to Waisi N.Z.
- aDepartment of Computer Techniques Engineering, Northern Technical University, Mosul, Iraq

A compensation of VANETs with UAVs to optimizing the routing strategy
Edelweiss Applied Science and TechnologyArticleOpen Access2025
DOI: 10.55214/25768484.v9i1.4210Copy to clipboard

- Ali, Rabei RaadaSend mail to Ali R.R.;
- Alzakwani, Mujahid Hamood Hilalb;
- Waisi, Najwan Zuhaira;
- Jubair, Mohammed Ahmedc;
- Najjaw, Mahmood Sha
- aTechnical Engineering College for Computer and AI, Northern Technical University, Mosul, 41000, Iraq

10. Briefly list the most recent professional development activities

Faculty Vitae

1. Name:

AZHAR WALEED TALAB

2.

Bachelors, Northern Technical University, Technical Engineering College / Mosul, 2007.

Master, Northern Technical University, Technical Engineering College / Mosul , 2022.

3.

Laboratory supervisor, (2019-2012)

Teacher (2022-2024)

Teacher and laboratory supervisor (2024-2026)

4. Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time

5. Certifications or professional registrations

6. Current membership in professional organizations

7. Honors and awards

8.

- Member of the Reception Committees for the Governance Conference: Responsible for welcoming delegations and keynote speakers and managing guest logistics (3 times).
- Member of the Preparatory Committee for Global Entrepreneurship Week: Contributed to the strategic planning, coordination, and execution of events and workshops.
- Member of the Examination Committee: Involved in the administration, monitoring, and processing of academic assessments.
- Member of the Audit Committee: Responsible for reviewing official records and ensuring compliance with institutional regulations and standards.

9.

1. Extended Range Evaluation of a BLE Mesh Network for Control Application.
2. Performance Validation and Hardware Implementation of a BLE Mesh Network by Using ESP-32 Board
3. Developing a New Algorithm to Detect Right Thumb Fingernail in Healthy Human

4. Analysis Equalization Images Contrast Enhancement and Performance Measurement.
5. Testing real-time system algorithms performance on synthetic Data: Analytical study of hard and soft system tasks.
6. Improving Communication Protocols Based on Crucial Data Transmission Security for IoT Techniques.

10.

1. R Program language basics
2. Deep learning
3. Compensation and Compensators in control systems
4. Sensibility analysis for large switched capacitor networks
5. Hemispherical dielectric resonator antenna
6. Design patch antenna at 2.4Ghz using HFSS

FACULTY VITAE

1. Name

Yasir musleh abdal

2. Education

- M.Sc. in Computer Technology Engineering, Northern Technical University, 2020
- B.Sc. in Computer Technology Engineering, Foundation of Technical Education, 2007

3. Academic Experience

- Northern Technical University / Technical Engineering College of Mosul, Engineer, 2012–2020, Full-time, Assistant Lecturer, 2020–2023, Full-time
- Northern Technical University / Technical Engineering College for Computer and Artificial Intelligence / Mosul, Assistant Lecturer, 2023–Present, Full-time

4. Non-Academic Experience

5. Certifications or Professional Registrations

- Contribution as a scientific reviewer for international conferences and journals
- Numerous certificates of participation in international and local workshops in Computer Engineering, Artificial Intelligence, and Machine Learning
- Professional training courses in Data Science, Artificial Intelligence, and Embedded Systems
- Participation in online and international webinars in areas of Computer Science, Smart Systems, and Biomedical Engineering Applications

6. Current Membership in Professional Organizations

7. Honors and Awards

8. Service Activities (Within and Outside the Institution)

- Participation in university environmental initiatives, including tree-planting campaigns and sustainability activities
- Participation in university sports activities, including the university football league
- Supervision of undergraduate students during summer training in governmental departments and institutions
- Contribution to student practical training and coordination with external training organizations

9. Selected Publications and Presentations (Last Five Years)

- “AI-Driven Privacy Shield: A Secure and Privacy-Preserving Federated Learning Framework,” International Journal of Computational & Electronic Aspects in Engineering, 2025.

- “EEG-Based Smart Control System for Managing Multiple Living Room Devices via Eye Blinking,” NTU Journal of Engineering and Technology, 2025.
- “Human–Machine Interaction for Motorized Wheelchair Based on Single-Channel Electroencephalogram Headband,” with M.G. Ayoub, M.N. Farhan, H.A. Abdulla, Bulletin of Electrical Engineering and Informatics, vol. 12, no. 2, pp. 902–910, 2023.
- “DCNN Oscillator Design, Implementation, and Performance Evaluation,” with T.A. Salih, E.A. Mohammed, Przegląd Elektrotechniczny, vol. 99, no. 4, 2023.
- “Parallel Hybrid String Matching Algorithm Using CUDA API Function,” with S.S.M. Al-Dabbagh, Proceedings of the International Conference on Computing and Communications Applications, 2021.
- “Brain–Computer Interface Based Smart Keyboard Using NeuroSky MindWave Headset,” with T.A. Salih, TELKOMNIKA (Telecommunication Computing Electronics and Control), vol. 18, no. 2, pp. 919–927, 2020.

10. Recent Professional Development Activities

Faculty Vitae

1. Name: Ahmed Waled Kasim

2. Education :Doctorate, assistant professor, physics, Mosul University 2017.

3. Academic experience: Lecturer since 2002 until now.

4. Non-academic experience:

5. Certifications or professional registrations: Electronics Technical Diploma.

6. Current membership in professional organizations: Member of the Iraqi Academics Syndicate.

7. Honors and awards:

8. Service activities: Participant in electronic governance committees.

9. Researches:

| Number and date | Publisher | Researchers | Name research | No. |
|------------------|---|--|---|-----|
| No.4 2020 | International Journal of Nanoelectronics and Materials | Ahmed W.Kasim Omar G. Gazal Hanyfa Yahya Najim | The Effect of Embedding a Thin Layer of a Polymer on Resistive Switching Characteristics for Au/CdSe/Au Structure. | 1 |
| No.1 2021 | Indonesian Journal of Electrical Engineering and Computer Science | Omar G.Gazal Ahmed W.Kasim Nabel Zoher T. | The absorber and buffer layer thicknesses for CdTe/CdS based thin film solar cell efficiency at various operational temperatures. | 2 |

| | | | | | |
|--|-----------------------|--|---|--|---|
| | | | | | |
| | No.1 2024 | Journal of Physical Sciences | Ahmed W. Kasim | Investigate the Electrical and Structural Characteristics of the Si-ZnO Diode. | 3 |
| | pp. 7-12, 2020 | IEEE 8th Conference on Systems, Process and Control (ICSPC), Melaka, Malaysia, | Raid R. O.,Muhammed K. J.,Ahmed W. K. and Sinan S. M. Sh. | Human Identification using Local Binary Patterns for Finger Outer Knuckle. | 4 |

10. Briefly list the most recent professional development activities:

Faculty Vitae

1. Name: Hakam Marwan Zaidan
2. Education – MSc., Computer engineering, RIT-USA, 2016
3. Academic experience – NTU, Lecturer 2016-2026, full time.
4. Non-academic experience – none.
5. Current membership in professional organizations: Currently not a member of professional organizations; actively engaged in academic research, teaching, and professional development activities.
6. Honors and awards: First Rank Graduate, B.Sc. in Computer Technology Engineering, 2010
7. Service activities:
 - Supervision of undergraduate projects in wireless communication and embedded systems
 - Development and maintenance of laboratory experiments (Arduino, XBee, MATLAB)
 - Participation in curriculum development for communication engineering courses
 - Organizing and delivering workshops on LaTeX and Overleaf
 - Academic advising and mentoring of students
 - Participation in examination committees and grading processes
8. Publications:
 - “Smart In-Car Speed Monitoring System, The Effect of Grace Period on Driving Behavior”**
Co-authors: H.M. Zaidan, Y. Al Rozz, D. Alhelal, E.A. Mohammed, I.J. Mujhid
Published in: *Journal of Soft Computing and Data Mining*, Vol. 7(1), pp. 66–78, 2026
 - “Using Technology to Combat Snoring: The Development of the Efficacy of a Microcontroller-Based Smart Pillow”**
Co-authors: Z.H. Al-Sawaff, E.Y. Abd Al-Jabbar, H.M. Zaidan, H.A.H. Kwasme
Published in: *Diagnostyka*, Vol. 25(4), 2024
 - “Implementation of WSN Based Smart Irrigation System”**
Co-authors: E.A. Mohammed, H.M. Zaidan, Z.G. Mohammed
Published in: *Przegląd Elektrotechniczny*, Vol. 99(6), pp. 27–31, 2023
 - “Estimation of the Number of People in an Indoor Environment Based on WiFi Received Signal Strength Indicator”**
Co-authors: H.M. Zaidan, E.A. Mohammed, D.H. Alhelal

Published in: *Bulletin of Electrical Engineering and Informatics*, Vol. 10(3), pp. 1473–1481, 2021

9. Most Recent Professional Development Activities:

- Delivered and organized a training course on writing research papers using Overleaf
- Developed and updated laboratory experiments in wireless communication and embedded systems (Arduino, XBee, MATLAB)
- Supervised undergraduate projects in IoT, wireless communication, and smart systems
- Engaged in research activities and publications in wireless sensor networks and signal processing
- Participated in academic conferences and workshops related to communication engineering
- Self-development in data analysis and programming tools (MATLAB, Python)

1. **Name** : Mohand Lokman Ahmad

2. **Education** Assistant Professor Dr in computer engineering -2019

3. **Academic experience** –

| position | period | |
|---|---------------|------------|
| Rapporteur, Computer Engineering Department | 11/10/2003 | 10/11/2004 |
| Head of Maintenance and Internet Division, Computer Center / Northern Technical University Presidency | 16/3/2021 | 11/12/2023 |
| Head of Software programming, Computer Center / Northern Technical University Presidency | 11/12/2023 | Present |

4. **Non-academic experience**

5. **Certifications or professional registrations**

- 1998: B.Sc. in Computer Engineering – Technical Education Authority
- 2001: M.Sc. in Computer Engineering – University of Mosul
- 2019: Ph.D. – Yasar University, Turkey

6. **Current membership in professional organizations**

- Head of IT Equipment Committee for classrooms at the Technical Engineering College
- Member of Optical Fiber Network Installation Committee at Northern Technical University
- Member of Scientific Committee in cyber security dept (2025–2026)
- head of Scientific Committee in artificial intelligence dept (2025–2026)
- Member of Scientific Committee of IOT and cloud computing dept (2025–2026)

7. **Honors and awards**

48 letter of honors and awards

8. Service activities (within and outside of the institution)

- Evaluated 11 Master's theses (including theses from University of Mosul)
- Evaluated 2 PhD theses for University of Mosul.
- Evaluated 2 plagiarism reports for academic promotion

9. Briefly list the most important publications and presentations from the past five years

| title | Authors | publisher | date of publication |
|---|---|--|---------------------|
| Revolutionizing Stroke Rehabilitation: Integrating Technology and Automation for Enhanced Patient Outcomes | Abdulaziz, R.M.,Loqman, M | Lecture Notes in Networks and SystemsOpen source preview | 2024 |
| Performance evaluation of ad-hoc on-demand distance vector protocol in highway environment in VANET with MATLAB | Qasim, O.A.,Noori, M.S.,Dabag, M.L.A.A. | Telkomnika Telecommunication Computing Electronics and ControlOpen source preview, | 2022 |
| Effect of Several Parameters on Deep Multi-Layer CNN Model for Face Recognition | Hummady, G.K.,Ahmad, M.L. | International Conference on Data Science and Intelligent Computing Icdsic | 2022 |
| Reinforced Deep Learning for Verifying Finger Veins | Najeeb, S.M.M.,Al-Nima, R.R.O.,Al-Dabag, M.L. | International Journal of Online and Biomedical EngineeringOpen source preview | 2021 |

10. Briefly list the most recent professional development activities

- Designer and programmer of the **Examination Committee System** (annual system) from 2011–2024 (retired after last batch graduation)
- Designer and programmer of **SIS system** for Northern Technical University

Faculty Vitae

1. Name

Naqaa Luqman Mohammed

2. Education

Master's Degree in Computer Technical Engineering, Northern Technical University, Iraq — 2012

Bachelor's Degree in Computer Technical Engineering, Northern Technical University, Iraq — 2003

3. Academic Experience

Northern Technical University, Iraq

Lecturer, Full-Time (2012 – Present)

Teaching undergraduate courses, preparing lectures, supervising students, and contributing to academic development

4. Non-Academic Experience

None

5. Certifications or Professional Registrations

Not specified

6. Current Membership in Professional Organizations

Not specified

7. Honors and Awards

Recognition from University Dean

8. Service Activities

Participation in academic supervision and student guidance

Contribution to seminars and academic activities within the university

9. Publications and Presentations (last five years)

Design and Implementation of Low-Cost Vein-Viewer Detection Using Near Infrared Imaging

Remote Home Monitoring Based on Mobile System

Design and Implementation of Embedded System to Generate Random Seed Number

10. Professional Development Activities

Participation in conferences and seminars (5+)

Continuous research activity (8 published papers)