IBRAHIM ABDULLAHI ABDU

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PROFILE

Enthusiastic and passionate Academia with a strong interest in teaching and research. Obtained a bachelor's and MSc in Computer Engineering from Eastern Mediterranean University (North Cyprus) and a PhD in Electrical and Computer Engineering from Altinbas University (Turkey). Research interests include Computer Networks, Wireless Sensor Networks, Wireless Body Area Network, Machine Learning and Internet of things.

EDUCATION

- **Altinbas University, Istanbul, Turkey** – PhD Electrical and Computer Engineering   **2015 – 2019**
- **Eastern Mediterranean University, Famagusta, North Cyprus** – M.Sc. Computer Engineering   **2009 – 2011**
- **Eastern Mediterranean University, Famagusta, North Cyprus** – B.Sc. Computer Engineering   **2005 – 2009**
- **Nigerian Military School, Zaria, Nigeria** – Senior Secondary School Certificate   **1998 – 2004**

EXPERIENCE

ALTINBAS UNIVERSITY, Istanbul, Turkey – Assistant Professor   **Nov, 2019 – Present**
- Carries out individual and collaborative research projects in areas such as Computer Networks, Wireless Sensor Networks, Wireless Body Area Network, and Internet of things.
- Works with colleagues and students to promote an atmosphere perfect for learning and sharing knowledge.
- Prepares and delivers lectures to both undergraduate (C Programming, C++ Programming, Analysis of Algorithm, Machine Learning, Computer Networks, and Human Computer Interraction) and graduate (Softwar Engineering, Machine Learning, IoT and Sensor networks) students.
- Supervise undergraduate projects, Masters and PhD thesis.
- Attend local and international conferences
- Erasmus coordinator for Electrical and Computer Engineering from 2021 – 2022.

AHMADU BELLO UNIVERSITY, Zaria, Nigeria – Lecturer   **Feb 2013 – Sep 2015**
- Provided strong academic leadership to undergraduate students and taught EEEN 505: Digital Computer Design during the 2014/2015 academic session.
- Prepared and delivered postgraduate lectures including COEN 845: Multimedia Systems 2012/2013 and 2013/2014 session; COEN 856: Human-Computer Interface Engineering 2012/2013 and 201/2014 session; COEN709: C++ Programming 2014/2015; and CMEN711: Data Communication 2013/2014 academic session.
- Supervised the projects of 2 PGD students in 2013, 5 PGD students in 2014, and 7 PGD students in 2015.
- Contributed to the development of the university's postgraduate curriculum as a member of the Curriculum Creation Committee.

COMMUNITY SERVICE

- Coordinated and led the visitation, support and motivational talks to patients at Ahmadu Bello University Teaching Hospital (ABUTH), Zaria, Nigeria, in 2012.

Selected MS Thesis Supervision

- Energy Optimization In Wsn Routing By Using The K-Means Clustering Algorithm And Ant Colony Algorithm **2019 – 2020**
- Effects of Volatility and Trend Indicator for Improving Price Prediction of Cryptocurrency **2019 – 2020**
- Design of Health Care Monitoring System Based on Internet of Thing (IOT) **2019 – 2020**
- Efficient Energy Management in Smart Homes using IOT-based Low-Power Wide-Area Network (LoRaWAN) Protocol **2019 – 2020**

- Effects Of Clem Cloud Based E-Learning Management System For Teaching A Review **2019 – 2020**
- Compressing the Scenes of Medical Video by Using Eigenvector **2020 – 2021**
- Feature Extraction and Analysis of EEG Signals based Motor-Movement Imagery using Multiscale Wavelet transform and Adaptive Nero Fuzzy Inference System (ANFIS) **2020 – 2021**
- SPEECH RECOGNITION METHOD USING DEEP LEARNING BASED FEATURES EXTRACTION **2020 – 2021**

Selected PhD Thesis Supervision

- Microstrip Antenna Design and Fabrication for Self Power Modern Wireless System
  2020 – 2021
- The role of adaptive technologies in increasing students' effectiveness in flipped learning **2020 – 2021**
- The Effects of Cloud Based E – Learning Management System for Teaching and Learning Process in Mechatronics **2020 – 2021**

AWARDS
- Winner, High Honor 2007 - 2008 and Honor Award 2008 - 2009 in the Computer Engineering Department, Eastern Mediterranean University, North Cyprus.
- Winner, Best Lecturer Award 2015 by Ahmadu Bello University, Zaria, Nigeria.
- Winner, BAP Project of Altinbas University grant worth $7,000 (50.000 TL). 2021

LANGUAGES
- Hausa (Native or Bilingual Proficiency)
- English (Native or Bilingual Proficiency)
- Turkish (Intermediate Proficiency)
- Arabic (Elementary Proficiency)

PUBLICATIONS AND ARTICLES
Selected Journals
- **Abdu, A. I.** and Bayat, O. **(2022).** An Improved Dual Sink Architecture with a ModifiedMAC Protocol, Energy-Aware and QoS guaranteed routing Algorithms for WBAN". International Journal of Distributed Sensor Networks. SAGE. **SCIE**
- Alla Alwindawi, Osman Ucan, **Abdullahi A. Ibrahim**, and Aminu Yusuf. (2022). "Novel semi-supervised learning approach for descriptor generation using artificial neural networks". Soft Computing. Springger. **SCI**

- Al-mutar Firas, **Ibrahim Abdullahi Abdu**, and Osman Nuru Ucan. (2022). "Provide a new framework for blockchain-based integrated and resource classification for the cloud". Applied Nanoscience. Springger. **SCIE**

- **Abdu, A. I.**, Bayat, O., & Ucan, O. N. **(2019).** Designing insistence-aware medium access control protocol and energy-conscious routing in the quality-of-service-guaranteed wireless body area network. International Journal of Distributed Sensor Networks. https://doi.org/10.1177/1550147718815843. **SCIE.**

- **Abdullahi Abdu Ibrahim (2021).** Quality of Service-aware clustered triad layer architecture for critical data transmission in multi-body area network environment. Engineering Reports, Wiley, John Wiley & Sons, Inc. **ESCI.**

- Aminu Yusuf, Nevra Bayhan, **Abdullahi A. Ibrahim**, Hasan Tiryaki,Sedat Ballikaya (2021). Geometric optimization of thermoelectric generator using genetic algorithm considering contact resistance and Thomson effect**.** International Journal of Energy Research. https://doi.org/10.1002/er.6467. **SCIE.**

- Abubakar M. Ashir , Salisu Ibrahim, Mohammed Abdulghani, **Abdullahi Abdu Ibrahim**, and Mohammed S. Anwar. Diabetic Retinopathy Detection Using Local Extrema Quantized Haralick Features with Long Short-Term Memory Network. (2020). **ESCI.**

- Abubakar AUWAL RİMİ, **Abdullahi Abdu IBRAHİM,** Oğuz BAYAT. **(2020).** Developing Classifier for the Prediction of Students' Performance Using Data Mining Classification Techniques. AURUM Mühendislik Sistemleri ve Mimarlık Dergisi.

- Ahmed Abbas, **Abdullahi Abdu Ibrahim (2020).** Energy Optimization of Fog Computing and IoT Application. Avrupa Bilim ve Teknoloji Dergisi.

- Haider Kasim Mohammd AL-HUSSEINI, **Abdullahi Abdu IBRAHIM**. (2020)Protection of flooding attack model for Securing Application layer Against DDoS Attack. Solid State Technology

Selected Seminars and Conferences

- **A. I. Abdu** and M. Salamah (2011), *"Energy-aware transmission scheme for wireless sensor network"*. Third international conference on Wireless and Mobile Networks, Springer Link, June 26 – 28, 2011, in City Hotel Turan Gunes, Ankara, Turkey. 135-144.

- **A. I. Abdu**; M.B. Mu'azu; P.U. Okorie; B.S. Olaniyi (2015) *"An Adaptive Energy-Aware Transmission Scheme for Wireless Sensor Networks"*. The International Science, Technology, Education, Arts, Management & Social Sciences (iSTEAMS) Research Nexus Conference 11th - 13th, University Of Ilorin, Kwara State, Nigeria. 79-80.

- **A. I. Abdu**; M. Salamah; P.U. Okorie, S. Sani; and S. Eleruja (2014) *"Optimizing Energy Consumption in Wireless Sensor Networks using an Energy-Aware Transmission Scheme"*. National Conference on Bridging the Gap between Academia and Industry in Nigeria: Refocusing Engineering Discipline, B.U.K. Kano, December 9th – 11th. 531-538.

- **Ibrahim A.A.**, Bayat O., Ucan O.N., Eleruja S.A. (2019) EN-NEAT: Enhanced Energy Efficient Threshold-Based Emergency Data Transmission Routing Protocol for Wireless Body Area Network. In: Yang XS., Sherratt S., Dey N., Joshi A. (eds) Third International Congress on Information and Communication Technology. Advances in Intelligent Systems and Computing, vol 797. Springer, Singapore.

- **Abdullahi Abdu Ibrahim**, Oguz Bayat, Osman N. Ucan, Sani Salisu. **(2020).** Weighted Energy and QoS based Multi-hop Transmission Routing Algorithm for WBAN. IEEE 6th International Engineering Conference (IEC). IEEE.

- **Abdullahi Abdu Ibrahim**, Oguz Bayat. **(2020).** Medium Access Control Protocol-based Energy and Quality of Service routing scheme for WBAN. 2020 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA). IEEE.

- MSM Hasnawi, **AA Ibrahim. (2020).** Efficient Routing Technique in Wireless Sensor Network Using PSO Topology Optimization. Institute of Electrical and Electronics Engineers Inc.

- Ahmed Zahim Dahham Dahham and **Abdullahi Abdu Ibrahim** (2020) Effects of Volatility and Trend Indicator for Improving Price Prediction of Cryptocurrency. IOP Conference Series: Materials Science and Engineering.

- H. H. Alshuwaili, **A. A. Ibrahim** and S. A. Al-agha, **(2021)**"Compressing the Scenes of Medical Video by Using Eigenvector," 2021 3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), pp. 1-4, doi: 10.1109/HORA52670.2021.9461392.

- Mohammed Baqer Fakhir Kareem, **Abdullahi Abdu Ibrahim (2021).** Feature Extraction and Analysis of EEG Signals based Motor-Movement Imagery using Multiscale Wavelet transform and Adaptive Nero Fuzzy Inference System (ANFIS). Sydney, Australia, International Conference on Science, Engineering & Technology.