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EDUCATION

بكلوريوس (01-07-1996)

Electrical Engineering

Al Mustansiriyah

ماجستير (03-10-1999)

Electronics and Communications

Al Mustansiriyah

دكتوراه (21-07-2019)

Electronics and Communications

Northampton University

RESEARCH METRICS

h-index (Scopus)	4
h-index (GS)	0
Citations (Scopus)	64
Citations (GS)	0
Documents (Scopus)	8
Documents (GS)	0

RESEARCH INTERESTS

- Electronics
- Communications
- Embeded Systems

Riyadh Abedraba Abbas

رياض عبد ربه عباس العقابي

Lecturer

PROFILE

Dr. Riyadh A. Abbas is a Senior Lecturer in the Department of Electrical Engineering at Wasit University, Wasit, Iraq. He received his B.Sc. degree in Electrical Engineering from Al-Mustansiriyah University, Iraq, in 1996, and his M.Sc. degree in Electronics and Communications from Al-Mustansiriyah University in 1999. He received his Ph.D. degree in Electronics and Communications from the University of Northampton, UK, in 2019. He has more than 20 years of experience in teaching and research in electronics and electrical engineering. His research interests include power electronics, FPGA-based systems, embedded systems, wireless communications, and Internet of Things (IoT) systems.

ACADEMIC TITLES

1999-10-03	Assistant Lecturer
2020-05-21	Lecturer

TEACHING EXPERIENCE

Lecturer

Al Mustansiriyah University

1999-10 - 2004-03

Senior Lecturer

Wasit University

2008-05 - Present

COURSES

- **Electronics** (EE01)
- **Electronics** (EE01)

ADMINISTRATIVE POSITIONS

2021-01-23 - Present	Assistant Dean for Management Affairs

PUBLICATIONS (19)

1. **Development and experimental validation of a low-cost sensor system for structural health monitoring applications**
   http://www.diagnostyka.net.pl/, https://doi.org/10.29354/diag/236890, 2026 | 2026
2. **Design and Feasibility Study of Low-Cost ADXL1002-STM32 Data Acquisition for Vibration Analysis**
   Wasit Journal of Engineering Sciences 14 (3), 158-166, 2026 | 2026
3. **Design and Implementation of an Electroencephalography System for Emotion Recognition**
   Wasit Journal of Engineering Sciences 14 (1), 51-63, 2026 | 2026

4. **AN APPRAISAL OF THE NONINVASIVE ELECTROENCEPHALOGRAPHY PRODUCTION AND MARKETING**
Journal of Engineering Science and Technology 21 (3), 2026 | 2026

5. **A Cost-Effective Sensor System for Structural Health Monitoring: Design and Experimental Evaluation**
Wasit Journal of Engineering Sciences 14 (3), 167-182, 2026 | 2026

6. **IOT System for Detecting Epileptic Seizures Based on Fuzzy Logic**
Wasit Journal of Engineering Sciences 13 (2), 78-90, 2025 | 2025

7. **A review of energy harvesting techniques for self-powered IoT devices**
Wasit Journal of Engineering Sciences 12 (4), 133-145, 2024 | 2024 | Cited: 8

8. **Thermal analysis of two basic bidirectional DC-DC converters**
AIP Conference Proceedings 3002 (1), 050005, 2024 | 2024 | Cited: 1

9. **Upgrading sustainable pipeline monitoring with piezoelectric energy harvesting**
Processes 12 (10), 2199, 2024 | 2024 | Cited: 5

10. **A review of non-isolated bidirectional DC-DC converters for hybrid energy storage system**
2022 5th International Conference on Engineering Technology and its ..., 2022 | 2022 | Cited: 57

11. **Performance Evaluation of Bidirectional SEPIC-ZETA DC-DC Converter with Different Ambient Temperature**
Wasit Journal of Engineering Sciences 10 (3), 75-92, 2022 | 2022 | Cited: 1

12. **Grants and hurdles machine to machine Communication at Scale**
2022 5th International Conference on Engineering Technology and its ..., 2022 | 2022

13. **Collision Evaluation in Low Power Wide Area Networks**
19th IEEE International Conference on Scalable Computing and Communication, 1-8, 2019 | 2019 | Cited: 8

14. **Development of a Random Time-Frequency Access Protocol for M2M Communication**
University of Northampton, 2019 | 2019

15. **A new channel selection algorithm for the weightless-n frequency hopping with lower collision probability**
2017 8th International Conference on the Network of the Future (NOF), 171-175, 2017 | 2017 | Cited: 17

16. **Development of scheduling process for the M2M communications system in smart cites**
School of Science and Technology Annual Research Conference, 2016 | 2016

17. **Scheduling process for the M2M communications system in smart cites**
2016

18. **E-learning and instructional management system based on local computer networks and internet**
Journal of College Teaching & Learning (Online) 11 (3), 115, 2014 | 2014 | Cited: 6

19. **PATTERN SYNTHEISS OF LINEAR PHASE ARRAY USING ARTIFICIAL NEAURAL NETWORK BASED ON PARTICLE SWARM OPTIMIZATION**
Kufa Journal of Engineering 5 (1), 71-84, 2013 | 2013