



**DR. FAUZUN BINTI
ABDULLAH ASUHAIMI**

PENSYARAH UNIVERSITI DS13

CONTACT

Phone: 067988000

E-mail: fauzun@usim.edu.my

Faculty: Fakulti Kejuruteraan
Dan Alam Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 1, Ongoing: 0

AREAS OF EXPERTISE

Other Communications Engineering

Artificial Intelligence

Radio Frequency And Wireless Systems

Communication Services (including Of Broadcasting, Postal
Communication, Tele-education, Tele-working, Multiservice
Convergence Network, 3g Cellular Networks, Internet Protocol,
Short-range Communivati

ACADEMIC QUALIFICATION

PhD in Electronics And Electrical Engineering (2019)

Master in Electrical - Electronics And Telecommunications
(2014)

Bachelor in Communication Engineering (2012)

RESEARCH

**1. RESOURCE MANAGEMENT OPTIMIZATION IN 6G NETWORK FOR
SMART GRID COMMUNICATIONS USING DEEP LEARNING**

2022

GERAN PENYELIDIKAN USIM

ON GOING

MAIN RESEARCHER

PUBLICATION

1. OPTIMIZATIONS OF IOT-EDGE COMPUTING IN SMART GRID WIDE AREA NETWORK.

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024

CHAPTER IN BOOK

MAIN AUTHOR

2. DURIAN DETECTION AND COUNTING SYSTEM USING DEEP LEARNING

JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY

2023

JOURNAL

ERA

MAIN AUTHOR

3. ENERGY EFFICIENCY MILLIMETER-WAVE COMMUNICATIONS FOR FLOATING PHOTOVOLTAIC IN SMART GRID

TECHNOLOGIES IN SCIENCE AND ENGINEERING

2023

CHAPTER IN BOOK

MAIN AUTHOR

4. ENERGY EFFICIENT SCHEDULING IN SMART HOME USING DEEP REINFORCEMENT LEARNING

2022 IEEE INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN ENGINEERING AND TECHNOLOGY (IICAET)

2022

PROCEEDING

SCOPUS

MAIN AUTHOR

5. RESOURCE ALLOCATION SCHEDULING FOR DELAY OPTIMIZATION IN 6G TERAHERTZ COMMUNICATION USING DEEP REINFORCEMENT LEARNING

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2022

2022

PROCEEDING

NON-INDEX

MAIN AUTHOR

6. ENERGY EFFICIENT DEVICE-TO-DEVICE COMMUNICATIONS UNDERLAYING CELLULAR NETWORKS FOR SMART GRID NEIGHBOURHOOD AREA NETWORKS

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021

CHAPTER IN BOOK

MAIN AUTHOR

7. DELAY-AWARE ENERGY-EFFICIENT JOINT POWER CONTROL AND MODE SELECTION IN DEVICE-TO-DEVICE COMMUNICATIONS FOR FREEDM SYSTEMS IN SMART GRIDS

IEEE ACCESS

2019

JOURNAL

ISI

MAIN AUTHOR

8. CHANNEL ACCESS AND POWER CONTROL FOR ENERGY- EFFICIENT DELAY-AWARE HETEROGENEOUS CELLULAR NETWORKS FOR SMART GRID COMMUNICATIONS USING DEEP REINFORCEMENT LEARNING

IEEE ACCESS

2019

JOURNAL

SCOPUS

MAIN AUTHOR

9. JOINT RESOURCE ALLOCATION AND POWER CONTROL IN HETEROGENEOUS CELLULAR NETWORKS FOR SMART GRIDS

IEEE GLOBECOM 2018

2018

PROCEEDING

NON-INDEX

MAIN AUTHOR

10. DELAY-OPTIMAL RELAY SELECTION IN DEVICE-TO-DEVICE COMMUNICATIONS FOR SMART GRID

2017 IEEE INTERNATIONAL CONFERENCE ON SMART GRID COMMUNICATIONS (SMARTGRIDCOMM)

2017

PROCEEDING

NON-INDEX

MAIN AUTHOR

AWARDS/RECOGNITION

1. STAFF CONTOH BULANAN

2024

UNIVERSITY

2. ANUGERAH E-PEMBELAJARAN

2024

UNIVERSITY

3. ACADEMIC ADVISOR

AI SINGAPORE

2024

INTERNATIONAL

4. ANUGERAH KARYA SUNTINGAN TERBAIK

2023

NATIONAL

5. DELAY AND ENERGY EFFICIENCY OF IOT-EDGE COMPUTING IN SMART GRID WAN

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023

UNIVERSITI

SILVER