



**PROF. MADYA TS. DR. M
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Kejuruteraan Dan Alam Bina

SUPERVISION

PhD - Completed: 2, Ongoing: 1

Master - Completed: 0, Ongoing: 1

AREAS OF EXPERTISE

Embedded Systems

System-on-chip (soc)

Optimization In Machine Learning

BIOGRAPHY

A lecturer from Fakulti Kejuruteraan Dan Alam Bina. Holds a Phd .

ACADEMIC QUALIFICATION

Phd (2015)

Master in Software Engineering (2004)

Bachelor in Electronic Engineering (2001)

RESEARCH

**1. UNCERTAINTY MODELLING WITH STOCHASTIC PROCESS FOR
ROBUST REAL-TIME SCHEDULABILITY ANALYSIS**

2023 ON GOING MAIN RESEARCHER

**2. AI-BASED STUDENT ATTENDANCE AND ENGAGEMENT
ALGORITHM IN SOC-FPGA**

2022 COMPLETED MAIN RESEARCHER

**3. MODELLING AND ANALYSIS OF COVID-19 SPREADING PROCESS
ON COMPLEX NETWORKS**

2020 COMPLETED MAIN RESEARCHER

**4. ANALYSIS OF ACOUSTIC EMANATION BEHAVIOURAL
CHARACTERISTICS AND QURANIC MAQAMAT ON AES-BASED
BLOCK CIPHER**

2016 COMPLETED MAIN RESEARCHER

**5. SIMULTANEOUS EXPLORATION OF MAPPING AND ROUTING ON
HARD REAL-TIME EMBEDDED NETWORKS-ON-CHIP**

2016 COMPLETED MAIN RESEARCHER

6. COMPARISON STUDY BETWEEN EXPECTATION & EXPERIENCE OF
ICT PROVISION IN UNIVERSITY

2009 COMPLETED MAIN RESEARCHER

PUBLICATION

1. TOWARD PREDICTABLE DEFLECTION ROUTING IN ROUTERLESS NOCS FOR REAL-TIME SYSTEMS

2025 PROCEEDING

2. REAL-TIME NETWORKS-ON-CHIP SYSTEM-LEVEL DESIGN SPACE EXPLORATION

2023 BOOK

3. INTEGRATED CIRCUIT CHIP FABRICATION

2023 CHAPTER IN BOOK

4. INTRODUCTION

2022 CHAPTER IN BOOK

5. CELSIUS TRACKER: A MOBILE APPLICATION TO EASE MOVEMENT CONTROL ORDER PROCEDURE DURING COVID-19 PANDEMIC

2021 PROCEEDING

6. TASK MAPPING AND ROUTING OPTIMIZATION FOR HARD REAL-TIME NETWORKS-ON-CHIP

2019 JOURNAL

7. HARD REAL-TIME EMBEDDED NOC DESIGN SPACE EXPLORATION

2019 CHAPTER IN BOOK

8. SIMULTANEOUS MULTI-OBJECTIVE OPTIMISATION FOR LOW-POWER REAL-TIME NETWORKS-ON-CHIP

2018 PROCEEDING

9. SIMULTANEOUS TASK MAPPING AND ROUTING OPTIMIZATION FOR SCHEDULING HARD REAL-TIME EMBEDDED NOCS

2018 PROCEEDING

10. INDUSTRIAL TRAINING HANDBOOK FOR ENGINEERING PROGRAM

2016 BOOK

11. SIMULTANEOUS OPTIMISATION OF TASK MAPPING AND PRIORITY ASSIGNMENT FOR REAL-TIME EMBEDDED NOCS

2015 PROCEEDING

12. A FUNCTION FOR HARD REAL-TIME SYSTEM SEARCH-BASED TASK MAPPING OPTIMISATION

2015 PROCEEDING

13. A CONSTRUCTIVE TASK MAPPING ALGORITHM FOR HARD REAL-TIME EMBEDDED NOCS

2015 PROCEEDING

14. AN OPTIMISATION ALGORITHM FOR MINIMISING ENERGY DISSIPATION IN NOC-BASED HARD REAL-TIME EMBEDDED SYSTEMS

2013 PROCEEDING

15. REAL-TIME LOW-POWER TASK MAPPING IN NETWORKS-ON-CHIP

2013 PROCEEDING

16. A DESIGN OF GRID SUPPORTED SERVICES FOR MOBILE LEARNING SYSTEM

2010 PROCEEDING

17. EXPECTATION & EXPERIENCE OF ICT IN UNIVERSITY: A COMPARATIVE STUDY

2010 PROCEEDING

18. IMPROVING SOFTWARE MAINTENANCE PROCESS USING INTERRELATED SET FROM FOSS

2009 PROCEEDING

CONSULTATION/ADULATION

1. INDKOM ENGINEERING ERP PROJECT

2015 NATIONAL INDKOM ENGINEERING SDN. BHD.

AWARDS/RECOGNITION

1. ANUGERAH MAKALAH JURNAL TERBAIK FKAB 2025

2025 UNIVERSITY

2. ANUGERAH SUKAN DAN REKREASI

2024 UNIVERSITY

3. ANUGERAH BUKU ILMIAH TERBAIK

2024 UNIVERSITY

4. ANUGERAH PERKHIDMATAN SETIA

2024 UNIVERSITY

5. ANUGERAH BUKU ILMIAH TERBAIK

2024 UNIVERSITY