



## PROF. MADYA TS. DR. M NORAZIZI SHAM BIN MOHD SAYUTI

PENSYARAH UNIVERSITI DS14

### CONTACT

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Kejuruteraan Dan Alam Bina

### SUPERVISION

PhD - Completed: 2, Ongoing: 1

Master - Completed: 0, Ongoing: 1

### AREAS OF EXPERTISE

Industrial Optimisation And Control

System-on-chip (soc)

Embedded Systems

Neural, Evolutionary And Fuzzy Computation

Mathematical Programming And Optimisation

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

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## 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

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#### 1. INDKOM ENGINEERING ERP PROJECT

2015 NATIONAL INDKOM ENGINEERING SDN. BHD.

## AWARDS/RECOGNITION

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#### 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