

Profile Image

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NORAZIZI SHAM BIN MOHD  
SAYUTI**

PENSYARAH UNIVERSITI DS14

**CONTACT**

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**Faculty:** Fakulti 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

**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

GERAN PENYELIDIKAN USIM

ON GOING

MAIN RESEARCHER

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

2022

BIDUNI MIZANNIYAH

COMPLETED

MAIN RESEARCHER

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

2020

GERAN PENYELIDIKAN COVID-19

COMPLETED

MAIN

RESEARCHER

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

2016

GERAN KPT

COMPLETED

MAIN RESEARCHER

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

2016

GERAN JANGKA PENDEK FASA 1

COMPLETED

MAIN

RESEARCHER

## RESEARCH

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

2009

GERAN PENYELIDIKAN PANTAS BAWAH SETAHUN

COMPLETED

MAIN RESEARCHER

# PUBLICATION

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

2023 BOOK MAIN AUTHOR

## 2. INTEGRATED CIRCUIT CHIP FABRICATION

TECHNOLOGIES IN SCIENCE AND ENGINEERING A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK MAIN AUTHOR

## 3. INTRODUCTION

QURANIC ACOUSTIC AN ANALYSIS FOR CRYPTOGRAPHIC APPLICATION

2022 CHAPTER IN BOOK MAIN AUTHOR

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

15TH INTERNATIONAL CONFERENCE ON OPEN SOURCE SYSTEMS AND TECHNOLOGIES (ICOSST)

2021 PROCEEDING NON-INDEX MAIN AUTHOR

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

BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS

2019 JOURNAL SCOPUS MAIN AUTHOR

## 6. HARD REAL-TIME EMBEDDED NOC DESIGN SPACE EXPLORATION

ADVANCES IN SUSTAINABLE LIVING ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK MAIN AUTHOR

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

4TH INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS AND SYSTEM ENGINEERING (ICEESE2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

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

THE 4TH INTERNATIONAL CONFERENCE ON ELECTRONIC DESIGN (ICED 2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

## 9. INDUSTRIAL TRAINING HANDBOOK FOR ENGINEERING PROGRAM

2016 BOOK MAIN AUTHOR

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

23RD EUROMICRO INTERNATIONAL CONFERENCE ON PARALLEL, DISTRIBUTED AND NETWORK-BASED PROCESSING

2015 PROCEEDING NON-INDEX MAIN AUTHOR

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

REAL-TIME DISTRIBUTED COMPUTING (ISORC), 2015 IEEE 18TH INTERNATIONAL SYMPOSIUM ON

2015 PROCEEDING NON-INDEX MAIN AUTHOR

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

IEEE CONFERENCE ON SYSTEM, PROCESS & CONTROL (ICSPC2015)

2015 PROCEEDING NON-INDEX MAIN AUTHOR

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

21ST INTERNATIONAL CONFERENCE ON REAL-TIME NETWORKS AND SYSTEMS

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## PUBLICATION

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

IEEE COMPUTER SOCIETY ANNUAL SYMPOSIUM ON VLSI (ISVLSI)

2013

PROCEEDING

NON-INDEX

MAIN AUTHOR

### 15. A DESIGN OF GRID SUPPORTED SERVICES FOR MOBILE LEARNING SYSTEM

2ND INTERNATIONAL CONFERENCE ON COMPUTER RESEARCH AND DEVELOPMENT

2010

PROCEEDING

NON-INDEX

MAIN AUTHOR

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

18TH INTERNATIONAL CONFERENCE ON COMPUTERS IN EDUCATION

2010

PROCEEDING

NON-INDEX

MAIN AUTHOR

### 17. IMPROVING SOFTWARE MAINTENANCE PROCESS USING INTERRELATED SET FROM FOSS

3RD INTERNATIONAL CONFERENCE ON INFORMATICS AND TECHNOLOGY

2009

PROCEEDING

NON-INDEX

MAIN AUTHOR

## CONSULTATION

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### 1. INDKOM ENGINEERING ERP PROJECT

INDKOM ENGINEERING SDN. BHD.

2015

NATIONAL

## AWARDS/RECOGNITION

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### 1. ANUGERAH SUKAN DAN REKREASI

2024

UNIVERSITY

### 2. ANUGERAH BUKU ILMIAH TERBAIK

2024

UNIVERSITY

### 3. ANUGERAH PERKHIDMATAN SETIA

2024

UNIVERSITY

### 4. ANUGERAH BUKU ILMIAH TERBAIK

2024

UNIVERSITY

### 5. ANUGERAH STAF CONTOH DISEMBER 2023

2024

UNIVERSITY