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PENSYARAH UNIVERSITI DS14

CONTACT

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FACULTY
Fakulti Kejuruteraan Dan Alam Bina

SUPERVISION

	COMPLETED	ONGOING
PhD	2	1
Master	0	1

AREAS OF EXPERTISE

Embedded Systems | System-on-chip (soc) | Evolutionary Computations

ACADEMIC QUALIFICATION

2015 **PhD**

2004 **Master** - Software Engineering

2001 **Bachelor** - Electronic Engineering

RESEARCH

1. UNCERTAINTY MODELLING WITH STOCHASTIC PROCESS FOR ROBUST REAL-TIME SCHEDULABLILTIY 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. SIMULANEOUS EXPLORATION OF MAPPING AND ROUTING ON HARD REAL-TIME EMBEDDED NETWORKS-ON-CHIP
2016 | GERAN JANGKA PENDEK FASA 1 | COMPLETED | MAIN RESEARCHER

RESEARCH

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

2009 | GERAN PENYELIDIKAN PANTAS BAWAH SETAHUN | COMPLETED | MAIN RESEARCHER

PUBLICATION

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

2025 IEEE 18TH INTERNATIONAL SYMPOSIUM ON EMBEDDED MULTICORE/MANY-CORE SYSTEMS-ON-CHIP (MCSOC)

2025 | PROCEEDING | SCOPUS | MAIN AUTHOR

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

2023 | BOOK | MAIN AUTHOR

3. INTEGRATED CIRCUIT CHIP FABRICATION

TECHNOLOGIES IN SCIENCE AND ENGINEERING A MULTIDISCIPLINARY APPROACH

2023 | CHAPTER IN BOOK | MAIN AUTHOR

4. INTRODUCTION

QURANIC ACOUSTIC AN ANALYIS FOR CRYTOGRAPHIC APPLICATION

2022 | CHAPTER IN BOOK | MAIN AUTHOR

5. 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

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

BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS

2019 | JOURNAL | SCOPUS | MAIN AUTHOR

7. HARD REAL-TIME EMBEDDED NOC DESIGN SPACE EXPLORATION

ADVANCES IN SUSTAINABLE LIVING ENGINEERING & BUILT ENVIRONMENT

2019 | CHAPTER IN BOOK | MAIN AUTHOR

8. 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

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

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

2018 | PROCEEDING | NON-INDEX | MAIN AUTHOR

10. INDUSTRIAL TRAINING HANDBOOK FOR ENGINEERING PROGRAM

2016 | BOOK | MAIN AUTHOR

PUBLICATION

11. 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

12. 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

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

IEEE CONFERENCE ON SYSTEM, PROCESS & CONTROL (ICSPC2015)

2015 PROCEEDING NON-INDEX MAIN AUTHOR

14. 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

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

IEEE COMPUTER SOCIETY ANNUAL SYMPOSIUM ON VLSI (ISVLSI)

2013 PROCEEDING NON-INDEX MAIN AUTHOR

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

2ND INTERNATIONAL CONFERENCE ON COMPUTER RESEARCH AND DEVELOPMENT

2010 PROCEEDING NON-INDEX MAIN AUTHOR

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

18TH INTERNATIONAL CONFERENCE ON COMPUTERS IN EDUCATION

2010 PROCEEDING NON-INDEX MAIN AUTHOR

18. IMPROVING SOFTWARE MAINTENANCE PROCESS USING INTERRELATED SET FROM FOSS

3RD INTERNATIONAL CONFERENCE ON INFORMATICS AND TECHNOLOGY

2009 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. INDKOM ENGINEERING ERP PROJECT

INDKOM ENGINEERING SDN. BHD.

2015 NATIONAL

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