



**PROF. MADYA IR. DR.
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RAHIM**

PENSYARAH UNIVERSITI DS14

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Faculty: Fakulti

Kejuruteraan Dan Alam

Bina

SUPERVISION

PhD - Completed: 8, Ongoing: 0

Master - Completed: 2,
Ongoing: 0

AREAS OF EXPERTISE

Navigation And Positioning System

Satellite Geodesy And Positioning

Digital Image Processing Algorithm And Techniques

ACADEMIC QUALIFICATION

PhD in Kejuruteraan (2012)

Master in Kejuruteraan (2007)

Bachelor in Kejuruteraan (2001)

RESEARCH

1. QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM NEURAL NETWORK

2024 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

2. INVARIANT KALMAN FILTERING FOR LOW-COST PEDESTRIAN NAVIGATION SYSTEM

2021 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

3. NEW MOTION SEGMENTATION FOR VEHICLES IN URBAN TRAFFIC SCENES

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

4. A FORMULATION OF AN ENHANCED AIRLIGHT DETECTION ALGORITHM FOR OUTDOOR IMAGES

2013 GERAN KPT COMPLETED MAIN RESEARCHER

5. AUTOMATIC IMAGE ENHANCEMENT TOOL FOR POOR VISIBILITY OUTDOOR IMAGES

2013 GERAN MOSTI COMPLETED MAIN RESEARCHER

RESEARCH

6. EVALUATING NETWORK PERFORMANCE OF DEDICATED WIFI ROUTERS

2013

GERAN PENYELIDIKAN INSENTIF

COMPLETED

MAIN RESEARCHER

PUBLICATION

1. INVARIANT EXTENDED KALMAN FILTER FOR LOW-COST FOOT-MOUNTED INERTIAL PEDESTRIAN NAVIGATION

2024 IEEE INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL AND INTELLIGENT SYSTEMS (I2CACIS)

2024 PROCEEDING SCOPUS MAIN AUTHOR

2. FROM MELAKA TO NOTTINGHAM

THE STORIES BEHIND SUCCESSFUL PHDS: PATIENCE, HUMILITY AND DEVOTION: THE ODYSSEY OF KNOWLEDGE

2024 CHAPTER IN BOOK MAIN AUTHOR

3. A USER REQUIREMENT STUDY TOWARDS THE DEVELOPMENT OF AN INTEGRATED GRADUATE PORTAL (IGP) FOR GRADUATE MARKETABILITY

INTERNATIONAL SUMMIT ON EMPLOYABILITY AND SOFT SKILLS (ISESS2017)

2017 PROCEEDING NON-INDEX MAIN AUTHOR

4. DEVELOPMENT OF INTEGRATED GRADUATE PORTAL (IGP) FOR GRADUATE MARKETABILITY

ACADEMICS WORLD 76TH INTERNATIONAL CONFERENCE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

5. TEST

2017 POLICY

6. ROTATING A MEMS INERTIAL MEASUREMENT UNIT FOR A FOOT MOUNTED PEDESTRIAN NAVIGATION

JOURNAL OF COMPUTER SCIENCE

2015 JOURNAL SCOPUS MAIN AUTHOR

7. ON MAGNETOMETER HEADING UPDATES FOR INERTIAL PEDESTRIAN NAVIGATION.

GYROSCOPY AND NAVIGATION

2014 JOURNAL SCOPUS MAIN AUTHOR

8. INCREASED ERROR OBSERVABILITY OF AN INERTIAL PEDESTRIAN NAVIGATION SYSTEM BY ROTATING IMU.

JOURNAL OF ENGINEERING AND TECHNOLOGICAL SCIENCES

2014 JOURNAL SCOPUS MAIN AUTHOR

9. ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION

INTERNATIONAL CONFERENCE ON COMPUTER NETWORKS AND INFORMATION TECHNOLOGY (ICCNIT2013)

2013 PROCEEDING NON-INDEX MAIN AUTHOR

10. USING CONSTRAINTS FOR SHOE MOUNTED INDOOR PEDESTRIAN NAVIGATION

THE JOURNAL OF NAVIGATION

2012 JOURNAL WOS MAIN AUTHOR

11. AIDING LOW COST INERTIAL NAVIGATION WITH BUILDING HEADING FOR PEDESTRIAN NAVIGATION

THE JOURNAL OF NAVIGATION

2011 JOURNAL WOS MAIN AUTHOR

12. INTEGRATING LOW COST IMU WITH BUILDING HEADING IN INDOOR PEDESTRIAN NAVIGATION

THE JOURNAL OF GLOBAL POSITIONING SYSTEM

2011 JOURNAL WOS MAIN AUTHOR

13. INVESTIGATING THE EFFECT OF ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION

THE EUROPEAN NAVIGATION CONFERENCE ON GLOBAL NAVIGATION SATELLITE SYSTEM (ENC-GNSS 2010)

2011 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

14. AIDING MEMS IMU WITH BUILDING HEADING FOR INDOOR PEDESTRIAN NAVIGATION

UBIQUITOUS POSITIONING, INDOOR NAVIGATION AND LOCATION BASED SERVICES (UPINLBS 2010)

2010

PROCEEDING

NON-INDEX

MAIN AUTHOR

15. PEDESTRIAN NAVIGATION WITH HEADING DRIFT CORRECTION

ROYAL INSTITUTE OF NAVIGATION (RIN-NAV10)

2010

PROCEEDING

NON-INDEX

MAIN AUTHOR

16. LOW-COST, HIGH ACCURACY POSITIONING FOR INDOOR NAVIGATION

DIGITAL FUTURE CONFERENCE 2010

2010

PROCEEDING

NON-INDEX

MAIN AUTHOR

17. SATELLITE LINK MARGIN PREDICTION AND PERFORMANCE OF ASTRO MALAYSIA

INTERNATIONAL CONFERENCE ON SPACE SCIENCE AND COMMUNICATION

2009

PROCEEDING

NON-INDEX

MAIN AUTHOR

CONSULTATION

1. TECHNICAL CONSULTANT FOR PREDICTIVE AND CORRECTIVE MAINTENANCE PROJECT, TRUCK MONITORING SYSTEM

JHC LOGISTICS

2021

NATIONAL

2. PERKHIDMATAN KONSULTANSI MEMBANGUNKAN PROGRAM SARJANA MUDA SAINS SENIBINA DENGAN KEPUJIAN KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

National

AWARDS/RECOGNITION

1. ANUGERAH PERKHIDMATAN CEMERLANG 2023

2024

UNIVERSITY

2. ACADEMIC ADVISOR

UKM

2024

UNIVERSITY

3. RUBBER TREE TRUNK HUMIDITY INSPECTOR

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022

ANTARABANGSA

SILVER

4. TOP 100 RESEARCHERS USIM (2013-2017)

TOP 100 RESEARCHERS

2018

UNIVERSITI

CERTIFICATE OF APPRECIATION

5. USIM MIZAN HOMESTAY

THE INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTION (PECIPTA 17)

2017

UNIVERSITI

BRONZE