



**PROF. MADYA IR. DR.
KHAIRI BIN ABDUL
RAHIM**

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 86501

E-mail:
khairiabdulrahim@usim.edu.

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. SMART AQUAGUARD: IOT-POWERED WATER QUALITY MONITORING FOR SUSTAINABLE AQUATIC MANAGEMENT

2025 GERAN KPT ON GOING CO-RESEARCHER

2. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR INDUSTRIAL PIPELINE INTEGRITY MONITORING

2025 BIDUNI MIZANNIYAH ON GOING CO-RESEARCHER

3. SMART AQUAGUARD: IOT-POWERED WATER QUALITY MONITORING FOR SUSTAINABLE AQUATIC MANAGEMENT

2025 GERAN PENYELIDIKAN INDUSTRI ON GOING CO-RESEARCHER

4. AUTOMATED MACHINE LEARNING SYSTEM FOR INSTALLATION, OPERATION AND MAINTENANCE OF SOLAR PROJECTS USING SATELLITE AND DRONE IMAGERY

2025 GERAN PENYELIDIKAN INDUSTRI ON GOING CO-RESEARCHER

5. QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM NEURAL NETWORK

2024 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

RESEARCH

6. TAARIQ: DESIGN AND DEVELOPMENT OF AN AI-BASED HUMANOID ROBOT

2023 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

7. DEVELOPMENT OF MOBILE APPLICATION FOR "EDUCATIONAL GAMES FOR KIDS WITH LEARNING DISABILITIES: KID WONDERS - KINDERS"

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

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

2021 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

9. IMPROVED INCENTIVE PRICING MODELS OF INTERNET UNDER MULTIPLE QOS NETWORKS

2019 GERAN KPT ON GOING CO-RESEARCHER

10. REDUCING THE CALIBRATION EFFORT OF INDOOR POSITIONING SYSTEMS USING DISCRETE FOURIER AND WAVELET TRANSFORMS

2018 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

11. NEW MOTION SEGMENTATION FOR VEHICLES IN URBAN TRAFFIC SCENES

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

12. MIZAN SOLAR HOME MODEL FOR SUSTAINABLE LIVELIHOOD

2017 GERAN PENYELIDIKAN KHAS COMPLETED CO-RESEARCHER

13. DETERMINATION OF OPTIMISED ORIENTATION OF A COST-EFFECTIVE PASSIVE PHOTOVOLTAIC SOLAR CELLS PLATFORM FOR MAXIMUM SOLAR POWER EXTRACTION IN EQUATORIAL LATITUDES

2015 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER

14. A NEW TOPOLOGY SEGMENTATION ALGORITHM FOR X-RAY IMAGES

2013 GERAN KPT COMPLETED CO-RESEARCHER

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

2013 GERAN KPT COMPLETED MAIN RESEARCHER

16. AUTOMATIC IMAGE ENHANCEMENT TOOL FOR POOR VISIBILITY OUTDOOR IMAGES

2013 GERAN MOSTI COMPLETED MAIN RESEARCHER

17. EVALUATING NETWORK PERFORMANCE OF DEDICATED WIFI ROUTERS

2013 GERAN PENYELIDIKAN INSENTIF COMPLETED MAIN RESEARCHER

18. OPTIMUM FITNESS FUNCTION ON HEURISTIC SEARCH EVALUATION FOR SOLVING TIMETABLING ISSUES

2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

19. AUTOMATED SEGMENTATION USING ADAPTIVE K-MEAN CLUSTERING FOR ACUTE MYELOID LEUKEMIA (AML)

2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER

PUBLICATION

1. INDOOR POSITIONING SYSTEMS: TECHNOLOGIES AND SELECTION STRATEGIES

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

2. CAMERA-BASED REAL-TIME QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM DEEP LEARNING SEQUENCES

JOURNAL OF ENGINEERING AND TECHNOLOGY (JET)

2025 JOURNAL MYCITE CORRESPONDING AUTHOR

3. OPTIMIZATION OF TILT ANGLE FOR FIXED TILT SOLAR PV SYSTEM: CASE STUDY FOR USIM, NILAI, NEGERI SEMBILAN

JOURNAL OF ENGINEERING AND TECHNOLOGY (JET)

2025 JOURNAL MYCITE CORRESPONDING AUTHOR

4. QURANIC SIGN LANGUAGE RECOGNITION: CHALLENGES AND FUTURE DIRECTIONS FOR EDGE-AWARE SYSTEMS

26TH INTERNATIONAL SEMINAR ON INTELLIGENT TECHNOLOGY AND ITS APPLICATIONS (ISITIA) 2025

2025 PROCEEDING NON-INDEX MAIN AUTHOR

5. A REVIEW OF SIGN LANGUAGE EVOLUTION AND TECHNOLOGICAL ADVANCEMENTS: SPOTLIGHT ON QURANIC SIGN LANGUAGE DEVELOPMENT

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 PROCEEDING NON-INDEX CO-AUTHOR

6. INTEGRATED IOT BASED WATER QUALITY SYSTEM USING FOUR PARAMETERS FOR SUSTAINABLE WATER RESOURCE MANAGEMENT

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 PROCEEDING NON-INDEX CO-AUTHOR

7. AN OVERVIEW ON PIPELINE LEAKAGE IN CARBON CAPTURE STORAGE

2025 IEEE 8TH INTERNATIONAL CONFERENCE ON ELECTRICAL, CONTROL AND COMPUTER ENGINEERING (INECCE)

2025 PROCEEDING SCOPUS CO-AUTHOR

8. THE DERIVATION OF A DESIGN MATRIX FOR A FOOT-MOUNTED INERTIAL PEDESTRIAN NAVIGATION USING INVARIANT OBSERVER APPROACH

JOURNAL OF ENGINEERING AND TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

9. A REVIEW OF CURRENT TREND IN INDOOR PEDESTRIAN NAVIGATION

JOURNAL OF ENGINEERING AND TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

10. 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

11. KEMBARA PASCAKEDOKTORAN DI KANADA, UNITED KINGDOM & BELGIUM

2024 BOOK CO-AUTHOR & CO-EDITOR

12. FROM MELAKA TO NOTTINGHAM

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

2024 CHAPTER IN BOOK MAIN AUTHOR

13. DEVELOPMENT OF A LIBRARY NAVIGATION SYSTEM USING DIJKSTRA'S ALGORITHM

JOURNAL OF ENGINEERING AND TECHNOLOGY

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

PUBLICATION

14. IMPROVED INCENTIVE PRICING MODEL OF WIRELESS PRICING SCHEME WITH END-TO-END DELAY ATTRIBUTE

SRIWIYAJA INTERNATIONAL CONFERENCE ON BASIC AND APPLIED SCIENCE

2023 PROCEEDING SCOPUS CO-AUTHOR

15. NEW ZERO-VELOCITY DETECTOR FOR LOW-COST INERTIAL PEDESTRIAN NAVIGATION

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

16. A LOW-COST IOT-BASED HEALTH MONITORING SYSTEM FOR HOME-CARE PATIENT

JOURNAL OF ENGINEERING AND TECHNOLOGY

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

17. ADAPTIVE CARDINAL HEADING AIDED FOR LOW-COST FOOT-MOUNTED INERTIAL PEDESTRIAN NAVIGATION

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2021 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

18. IMPROVED INCENTIVE PRICING WIRELESS MULTI-SERVICE SINGLE LINK WITH BANDWIDTH ATTRIBUTE

INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)

2021 JOURNAL JCR CO-AUTHOR

19. IMPROVED MODEL OF INTERNET PRICING INCENTIVE MECHANISM BASED ON MULTI BOTTLENECK LINKS IN MULTI QOS NETWORKS

3RD INTERNATIONAL CONFERENCE ON ELECTRICAL, COMMUNICATION AND COMPUTER ENGINEERING (ICECCE)

2021 PROCEEDING NON-INDEX CO-AUTHOR

20. FINITE-HORIZON LQR CONTROL OF QUADROTORS ON SE2_3

IEEE ROBOTICS AND AUTOMATION LETTERS

2020 JOURNAL WOS MAIN AUTHOR / CONTACT PERSON IN USIM

21. A NEW SPATIO-TEMPORAL BACKGROUND?FOREGROUND BIMODAL FOR MOTION SEGMENTATION AND DETECTION IN URBAN TRAFFIC SCENES

NEURAL COMPUTING & APPLICATIONS

2019 JOURNAL ISI, SCOPUS AND ERA CO-AUTHOR

22. DYNAMIC FEATURES DESCRIPTOR FOR ROAD USER RECOGNITION USING HIERARCHAL GRAPH DYNAMIC GRADIENT PATTERN

INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING

2019 JOURNAL SCOPUS CO-AUTHOR

23. A NEW SPATIO-TEMPORAL BACKGROUND?FOREGROUND BIMODAL FOR MOTION SEGMENTATION AND DETECTION IN URBAN TRAFFIC SCENES

NEURAL COMPUTING AND APPLICATIONS

2019 JOURNAL WOS CO-AUTHOR

24. OUTCOME BASED EDUCATION FOR ENGINEERING PROGRAMME: A CASE STUDY OF USIM

2019 BOOK CO-AUTHOR

25. INTELLIGENT ROAD TRANSPORTATION SYSTEMS

ADVANCES IN SUSTAINABLE LIVING: BUILT ENVIRONMENT AND BUILDING TECHNOLOGY

2019 CHAPTER IN BOOK CO-AUTHOR

26. REAL-TIME FRAMEWORK FOR IMAGE DEHAZING BASED ON LINEAR TRANSMISSION AND CONSTANT-TIME AIRLIGHT ESTIMATION

INFORMATION SCIENCES

2018 JOURNAL WOS CO-AUTHOR

PUBLICATION

27. A NEW MOTION SEGMENTATION TECHNIQUE USING FOREGROUND-BACKGROUND BIMODAL

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2018 JOURNAL OTHER DATABASE CO-AUTHOR

28. RANDOMNESS EVALUATION OF MODIFIED A5/1 STREAM CIPHER FOR GLOBAL SYSTEM FOR MOBILE COMMUNICATION

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2018 JOURNAL OTHER DATABASE CO-AUTHOR

29. CHAPTER 3: INNOVATION

MIZANHOME FROM IDEAS TO REALITY

2018 CHAPTER IN BOOK CO-AUTHOR

30. PACKET LOSS RATE DIFFERENTIATION IN SLOTTED OPTICAL PACKET SWITCHING OCDM/WDM

TELKOMNIKA

2017 JOURNAL SCOPUS CO-AUTHOR

31. SIGNALING AND SCHEDULING WIMAX GATEWAY DESIGN BASED ON RESOURCE RESERVATION PROTOCOL

INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY

2017 JOURNAL WOS CO-AUTHOR

32. 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

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

ACADEMICS WORLD 76TH INTERNATIONAL CONFERENCE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

34. TEST

2017 POLICY

35. INTENSITY ENHANCEMENT ON OUTDOOR IMAGES

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS CO-AUTHOR

36. BACKGROUND SUBTRACTION IN URBAN TRAFFIC VIDEO USING RECURSIVE SIGMA-DELTA MIXTURE MODEL

JOURNAL OF ENGINEERING AND APPLIED SCIENCES

2016 JOURNAL SCOPUS CO-AUTHOR

37. TRAFFIC SURVEILLANCE: A REVIEW OF VISION BASED VEHICLE DETECTION, RECOGNITION AND TRACKING

INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH

2016 JOURNAL SCOPUS CO-AUTHOR

38. CUMULATIVE FRAME DIFFERENCING FOR URBAN VEHICLE DETECTION

FIRST INTERNATIONAL WORKSHOP ON PATTERN RECOGNITION

2016 PROCEEDING NON-INDEX CO-AUTHOR

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

JOURNAL OF COMPUTER SCIENCE

2015 JOURNAL SCOPUS MAIN AUTHOR

PUBLICATION

40. OPTIMIZATION OF FDL BUFFERS AND COST FUNCTION FOR CONTENTION RESOLUTION IN OCDM/WDM

2015 IEEE 12TH MALAYSIA INTERNATIONAL CONFERENCE ON COMMUNICATIONS (MICC 2015)

2015 PROCEEDING NON-INDEX CO-AUTHOR

41. SINGLE IMAGE ENHANCEMENT IN VARIOUS WEATHER CONDITIONS USING INTENSITY AND SATURATION DETERIORATION RATIO

2015 INTERNATIONAL CONFERENCE ON COMPUTER, CONTROL, INFORMATICS AND ITS APPLICATIONS (IC3INA 2015)

2015 PROCEEDING NON-INDEX CO-AUTHOR

42. ON MAGNETOMETER HEADING UPDATES FOR INERTIAL PEDESTRIAN NAVIGATION.

GYROSCOPY AND NAVIGATION

2014 JOURNAL SCOPUS MAIN AUTHOR

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

JOURNAL OF ENGINEERING AND TECHNOLOGICAL SCIENCES

2014 JOURNAL SCOPUS MAIN AUTHOR

44. CONTROLLING ALGORITHM FOR ENERGY-CONSUMPTION, RADIO BANDWIDTH AND SIGNAL STRENGTH DEPLOYING SINGLE FITNESS FUNCTION TO SOLVE COVERAGE AREA PROBLEMS.

ADVANCE SCIENCE LETTERS

2014 JOURNAL SCOPUS CO-AUTHOR

45. UNDERSTANDING THE PERFORMANCE OF ZERO VELOCITY UPDATES IN MEMS-BASED PEDESTRIAN NAVIGATION.

INTERNATIONAL JOURNAL OF ADVANCEMENTS IN TECHNOLOGY

2014 JOURNAL OTHER DATABASE MAIN AUTHOR

46. DEVELOPMENT OF INTEGRATED PORTAL (IP) AS AN E-TOOL FOR THE ENHANCEMENT OF JOB MARKETABILITY.

JOURNAL OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

2014 JOURNAL OTHER DATABASE CO-AUTHOR

47. INTENSITY ENHANCEMENT ON OUTDOOR IMAGES.

3RD INTERNATIONAL CONFERENCE OF INTERACTIVE DIGITAL MEDIA

2014 PROCEEDING NON-INDEX CO-AUTHOR

48. ESTIMATION OF SKYLIGHT VALUE IN HAZY OUTDOOR IMAGES.

WORLD SYMPOSIUM ON COMPUTER APPLICATIONS AND RESEARCH.

2014 PROCEEDING NON-INDEX CO-AUTHOR

49. FUZZY LOGIC-BASED APPROACH TO ENHANCE VIDEO IN REAL TIME

POSTGRADUATE COLLOQUIUM OF FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX CO-AUTHOR

50. ASPEK PERUNDANGAN BAGI KEMUNGKINAN SALAHLAKU PENGGUNA MEDIA SOSIAL

SEMINAR TEKNOLOGI MAKLUMAT DAN MASYARAKAT (STMM2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

51. REAL TIME VIDEO ENHANCEMENT FOR VARIOUS WEATHER CONDITIONS USING DARK CHANNEL AND FUZZY LOGIC

2ND INTERNATIONAL CONFERENCE ON COMPUTER AND INFORMATION SCIENCES

2014 PROCEEDING NON-INDEX CO-AUTHOR

52. THE PERFORMANCE OF OCDM/WDM WITH BUFFERING BASED ON SHARED FIBER DELAY LINE

8TH INTERNATIONAL CONFERENCE OF INFORMATION, COMMUNICATION TECHNOLOGIES AND SYSTEMS.

2014 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

53. STUDENTS PERSPECTIVE TOWARDS THE DEVELOPMENT OF THE INTEGRATED GRADUATE PORTAL FOR GRADUATE MARKETABILITY.

POSTGRADUATE COLLOQUIUM OF FACULTY OF SCIENCE AND TECHNOLOGY, USIM

2014 PROCEEDING NON-INDEX CO-AUTHOR

54. ON THE OPTIMAL COVERAGE AREA FOR SOLVING ENERGY-EFFICIENT PROBLEM IN WIRELESS SENSOR NETWORK

3RD INTERNATIONAL CONFERENCE ON GLOBAL OPTIMIZATION AND ITS APPLICATION (ICOGOLA 2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

55. PRIORITY CONTROL SCHEDULING FOR DOWNLINK AND UPLINK IN WIMAX NETWORK

SECOND INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCES IN ELECTRICAL, ELECTRONICS AND COMPUTER ENGINEERING (TAECE2014) (TAECE)

2014 PROCEEDING NON-INDEX CO-AUTHOR

56. POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY: TOWARDS HIGH QUALITY RESEARCH OF SCIENCE AND TECHNOLOGY

2014 BOOK CO-EDITOR

57. ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION

INTERNATIONAL CONFERENCE ON COMPUTER NETWORKS AND INFORMATION TECHNOLOGY (ICCNIT2013)

2013 PROCEEDING NON-INDEX MAIN AUTHOR

58. K-MEANS CLUSTERING FOR ACUTE LEUKEMIA BLOOD CELLS IMAGE

INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND COMPUTATIONAL MATHEMATICS

2013 PROCEEDING NON-INDEX CO-AUTHOR

59. A FRAMEWORK OF THE INTEGRATED GRADUATE PORTAL FOR STUDENT MARKETABILITY

INTERNATIONAL LANGUAGE AND EDUCATION CONFERENCE (ILEC2013)

2013 PROCEEDING NON-INDEX CO-AUTHOR

60. ANALYSIS OF MOTION DETECTION OF BREAST TUMOR BASED ON TISSUE ELASTICITY FROM B MODE ULTRASOUND IMAGES USING GRADIENT METHOD OPTICAL FLOW ALGORITHM.

1ST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, MODELLING AND SIMULATION (AIMS 2013).

2013 PROCEEDING NON-INDEX CO-AUTHOR

61. PRACTICE THE PROPHET MUHAMMAD (SAW) NOBLE CHARACTERS VIA AN INTEGRATED GRADUATE PORTAL (IGP)

PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE

2013 CHAPTER IN BOOK CO-AUTHOR

62. USING CONSTRAINTS FOR SHOE MOUNTED INDOOR PEDESTRIAN NAVIGATION

THE JOURNAL OF NAVIGATION

2012 JOURNAL WOS MAIN AUTHOR

63. INVESTIGATING THE USE OF ROTATING FOOT MOUNTED INERTIAL SENSORS FOR POSITIONING

ION GNSS 2012

2012 PROCEEDING NON-INDEX CO-AUTHOR

64. PENGGUNAAN TEKNOLOGI MAKLUMAT DALAM MEMACU KEMERKUPASARAN GRADUAN INSTITUSI PENGAJIAN TINGGI ISLAM (IPTI)

SEMINAR SERANTAU INSTITUSI PENGAJIAN TINGGI ISLAM (SEIPTI 2012)

2012 PROCEEDING NON-INDEX CO-AUTHOR

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

THE JOURNAL OF NAVIGATION

2011 JOURNAL WOS MAIN AUTHOR

PUBLICATION

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

THE JOURNAL OF GLOBAL POSITIONING SYSTEM

2011 JOURNAL WOS MAIN AUTHOR

67. 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

68. INTEGRATION OF HEADING-AIDED MEMS IMU WITH GPS FOR PEDESTRIAN NAVIGATION

ION GNSS 2011

2011 PROCEEDING NON-INDEX CO-AUTHOR

69. 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

70. PEDESTRIAN NAVIGATION WITH HEADING DRIFT CORRECTION

ROYAL INSTITUTE OF NAVIGATION (RIN-NAV10)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

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

DIGITAL FUTURE CONFERENCE 2010

2010 PROCEEDING NON-INDEX MAIN AUTHOR

72. RAPID WI-FI FINGERPRINT MAPPING FOR INDOOR NAVIGATION

ROYAL INSTITUTE OF NAVIGATION (RIN-NAV10)

2010 PROCEEDING NON-INDEX CO-AUTHOR

73. 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 KHAS FKAB JA'IZAH AL KHASSAH

2025 OTHERS

2. CONFERENCE PAPER REVIEWER

IEEE REGION 10

2025 INTERNATIONAL

3. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR CCS PIPELINE INTEGRITY MONITORING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

4. ANUGERAH PERKHIDMATAN CEMERLANG 2023

2024 UNIVERSITY

5. ACADEMIC ADVISOR

UKM

2024 UNIVERSITY

6. RUBBER TREE TRUNK HUMIDITY INSPECTOR

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022 ANTARABANGSA SILVER

7. TOP 100 RESEARCHERS USIM (2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

8. USIM MIZAN HOMESTAY

THE INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTION (PECIPTA 17)

2017 UNIVERSITI BRONZE

9. MIZAN SOLARHOME

27TH INTERNATIONAL INVENTION & INNOVATION EXHIBITION 2017 (ITEX 2017)

2017 ANTARABANGSA SILVER

10. ROTATING IMU FOR PEDESTRIAN NAVIGATION

International Conference on Computer Networks and Information Technology

2013 ANTARABANGSA BEST PAPER AWARD