

PROF. MADYA IR. DR. KHAIRI BIN ABDUL RAHIM

PENSYARAH UNIVERSITI DS14

# CONTACT

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Faculty: Fakulti Kejuruteraan

Dan Alam Bina

# **SUPERVISION**

PhD - Completed: 8, Ongoing: 0 Master - Completed: 2, Ongoing: 0

# AREAS OF EXPERTISE

Image Processing And Computer Vision Control Engineering Navigation And Positioning System Observational Studies Intelligent Navigation System Image Processing

## **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. QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM NEURAL NETWORK

2024 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

3. TAARIQ: DESIGN AND DEVELOPMENT OF AN AL-BASED HUMANOID ROBOT

2023 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

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

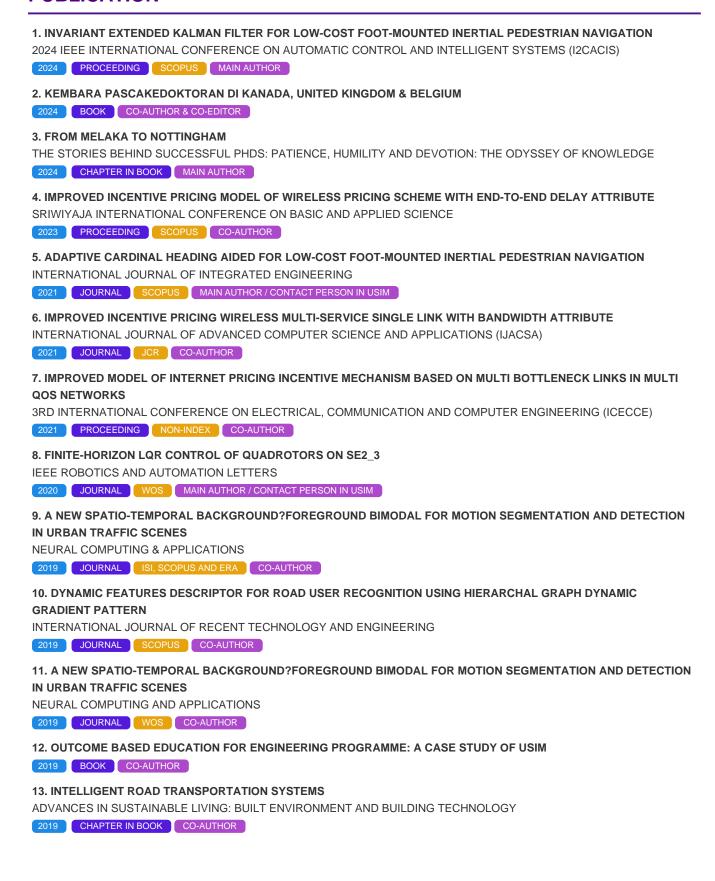
2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-

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

2021 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

# **RESEARCH**

7. REDUCING THE CALIBRATION EFFORT OF INDOOR POSITIONING SYSTEMS USING DISCRETE FOURIER AND WAVELET TRANSFORMS  2018 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER  8. NEW MOTION SEGMENTATION FOR VEHICLES IN URBAN TRAFFIC SCENES  2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER  9. MIZAN SOLAR HOME MODEL FOR SUSTAINABLE LIVELIHOOD  2017 GERAN PENYELIDIKAN KHAS COMPLETED CO-RESEARCHER  10. 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  11. A NEW TOPOLOGY SEGMENTATION ALGORITHM FOR X-RAY IMAGES  2013 GERAN KPT COMPLETED CO-RESEARCHER  12. A FORMULATION OF AN ENHANCED AIRLIGHT DETECTION ALGORITHM FOR OUTDOOR IMAGES  2013 GERAN KPT COMPLETED MAIN RESEARCHER  13. AUTOMATIC IMAGE ENHANCEMENT TOOL FOR POOR VISIBILITY OUTDOOR IMAGES  2013 GERAN MOSTI COMPLETED MAIN RESEARCHER  14. EVALUATING NETWORK PERFOMANCE OF DEDICATED WIFI ROUTERS  2013 GERAN PENYELIDIKAN INSENTIF COMPLETED MAIN RESEARCHER  15. OPTIMUM FITNESS FUNCTION ON HEURISTIC SEARCH EVALUATION FOR SOLVING TIMETABLING ISSUES  2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER  16. AUTOMATED SEGMENTATION USING ADAPTIVE K-MEAN CLUSTERING FOR ACUTE MYLEOD LEUKEMIA (AML)  2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER	6. IMPROVED INCENTIVE PRICING MODELS OF INTERNET UNDER MULTIPLE QOS NETWORKS  2019 GERAN KPT ON GOING CO-RESEARCHER
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14. REAL-TIME FRAMEWORK FOR IMAGE DEHAZING BASED ON LINEAR TRANSMISSION AND CONSTANT-TIME AIRLIGHT ESTIMATION INFORMATION SCIENCES  2018 JOURNAL WOS CO-AUTHOR
15. CHAPTER 3: INNOVATION  MIZANHOME FROM IDEAS TO REALITY  2018 CHAPTER IN BOOK CO-AUTHOR
16. PACKET LOSS RATE DIFFERENTIATION IN SLOTTED OPTICAL PACKET SWITCHING OCDM/WDM TELKOMNIKA  2017 JOURNAL SCOPUS CO-AUTHOR
17. SIGNALING AND SCHEDULING WIMAX GATEWAY DESIGN BASED ON RESOURCE RESERVATION PROTOCOL INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY  2017 JOURNAL WOS CO-AUTHOR
18. 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
19. DEVELOPMENT OF INTEGRATED GRADUATE PORTAL (IGP) FOR GRADUATE MARKETABILITY  ACADEMICS WORLD 76TH INTERNATIONAL CONFERENCE  2017 PROCEEDING NON-INDEX MAIN AUTHOR  20. TEST
2017 POLICY
21. INTENSITY ENHANCEMENT ON OUTDOOR IMAGES  JURNAL TEKNOLOGI  2016 JOURNAL SCOPUS CO-AUTHOR
22. BACKGROUND SUBTRACTION IN URBAN TRAFFIC VIDEO USING RECURSIVE SIGMA-DELTA MIXTURE MODEL JOURNAL OF ENGINEERING AND APPLIED SCIENCES  2016 JOURNAL SCOPUS CO-AUTHOR
23. TRAFFIC SURVEILLANCE: A REVIEW OF VISION BASED VEHICLE DETECTION, RECOGNITION AND TRACKING INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH  2016 JOURNAL SCOPUS CO-AUTHOR
24. CUMULATIVE FRAME DIFFERENCING FOR URBAN VEHICLE DETECTION  FIRST INTERNATIONAL WORKSHOP ON PATTERN RECOGNITION  2016 PROCEEDING NON-INDEX CO-AUTHOR
25. ROTATING A MEMS INERTIAL MEASUREMENT UNIT FOR A FOOT MOUNTED PEDESTRIAN NAVIGATION  JOURNAL OF COMPUTER SCIENCE  2015 JOURNAL SCOPUS MAIN AUTHOR
26. OPTIMIZATION OF FDL BUFFERS AND COST FUNCTION FOR CONTENTION RESOLUTION IN OCDM/WDM 2015 IEEE 12TH MALAYSIA INTERNATIONAL CONFERENCE ON COMMUNICATIONS (MICC 2015)  PROCEEDING NON-INDEX CO-AUTHOR

# 27. 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

28. ON MAGNETOMETER HEADING UPDATES FOR INERTIAL PEDESTRIAN NAVIGATION.

GYROSCOPY AND NAVIGATION

2014 JOURNAL SCOPUS MAIN AUTHOR

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

JOURNAL OF ENGINEERING AND TECHNOLOGICAL SCIENCES

2014 JOURNAL SCOPUS MAIN AUTHOR

30. 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

31. INTENSITY ENHANCEMENT ON OUTDOOR IMAGES.

3RD INTERNATIONAL CONFERENCE OF INTERACTIVE DIGITAL MEDIA

2014 PROCEEDING NON-INDEX CO-AUTHOR

32. ESTIMATION OF SKYLIGHT VALUE IN HAZY OUTDOOR IMAGES.

WORLD SYMPOSIUM ON COMPUTER APPLICATIONS AND RESEARCH.

2014 PROCEEDING NON-INDEX CO-AUTHOR

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

POSTGRADUATE COLLOQUIUM OF FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX CO-AUTHOR

34. ASPEK PERUNDANGAN BAGI KEMUNGKINAN SALAHLAKU PENGGUNA MEDIA SOSIAL

SEMINAR TEKNOLOGI MAKLUMAT DAN MASYARAKAT (STMM2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

35. 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

36. 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

37. 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

38. 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

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

SECOND INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCES IN ELECTRICAL, ELECTRONICS AND COMPUTER ENGINEERING (TAEECE2014) (TAEECE)

2014 PROCEEDING NON-INDEX CO-AUTHOR

**ION GNSS 2011** 

2011 PROCEEDING NON-INDEX CO-AUTHOR

# 40. POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY: TOWARDS HIGH QUALITY RESEARCH OF SCIENCE AND TECHNOLOGY 2014 BOOK CO-EDITOR 41. ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION INTERNATIONAL CONFERENCE ON COMPUTER NETWORKS AND INFORMATION TECHNOLOGY (ICCNIT2013) 2013 PROCEEDING NON-INDEX MAIN AUTHOR 42. K-MEANS CLUSTERING FOR ACUTE LEUKEMIA BLOOD CELLS IMAGE INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND COMPUTATIONAL MATHEMATICS 2013 PROCEEDING NON-INDEX CO-AUTHOR 43. A FRAMEWORK OF THE INTEGRATED GRADUATE PORTAL FOR STUDENT MARKETABILITY INTERNATIONAL LANGUAGE AND EDUCATION CONFERENCE (ILEC2013) 2013 PROCEEDING NON-INDEX CO-AUTHOR 44. 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 ARTIFICAL INTELLIGENCE, MODELLING AND SIMULATION (AIMS 2013). 2013 PROCEEDING NON-INDEX CO-AUTHOR 45. PRACTICE THE PROPHET MUHAMMAD (SAW) NOBLE CHARACTERS VIA AN INTEGRATED GRADUATE PORTAL (IGP) PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE 2013 CHAPTER IN BOOK CO-AUTHOR 46. USING CONSTRAINTS FOR SHOE MOUNTED INDOOR PEDESTRIAN NAVIGATION THE JOURNAL OF NAVIGATION 2012 JOURNAL WOS MAIN AUTHOR 47. INVESTIGATING THE USE OF ROTATING FOOT MOUNTED INERTIAL SENSORS FOR POSITIONING ION GNSS 2012 2012 PROCEEDING NON-INDEX CO-AUTHOR 48. PENGGUNAAN TEKNOLOGI MAKLUMAT DALAM MEMACU KEBOLEHPASARAN GRADUAN INSTITUSI PENGAJIAN **TINGGI ISLAM (IPTI)** SEMINAR SERANTAU INSTITUSI PENGAJIAN TINGGI ISLAM (SEIPTI 2012) 2012 PROCEEDING NON-INDEX CO-AUTHOR 49. AIDING LOW COST INERTIAL NAVIGATION WITH BUILDING HEADING FOR PEDESTRIAN NAVIGATION THE JOURNAL OF NAVIGATION 2011 JOURNAL WOS MAIN AUTHOR 50. INTEGRATING LOW COST IMU WITH BUILDING HEADING IN INDOOR PEDESTRIAN NAVIGATION THE JOURNAL OF GLOBAL POSITIONING SYSTEM 2011 JOURNAL WOS MAIN AUTHOR 51. 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 52. INTEGRATION OF HEADING-AIDED MEMS IMU WITH GPS FOR PEDESTRIAN NAVIGATION

#### 53. 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

#### 54. PEDESTRIAN NAVIGATION WITH HEADING DRIFT CORRECTION

ROYAL INSTITUTE OF NAVIGATION (RIN-NAV10)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

#### 55. LOW-COST, HIGH ACCURACY POSITIONING FOR INDOOR NAVIGATION

DIGITAL FUTURE CONFERENCE 2010

2010 PROCEEDING NON-INDEX MAIN AUTHOR

#### 56. RAPID WI-FI FINGERPRINT MAPPING FOR INDOOR NAVIGATION

ROYAL INSTITUTE OF NAVIGATION (RIN-NAV10)

2010 PROCEEDING NON-INDEX CO-AUTHOR

#### 57. 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



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

KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)



# 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

#### 6. MIZAN SOLARHOME

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

2017 ANTARABANGSA SILVER

#### 7. ROTATING IMU FOR PEDESTRIAN NAVIGATION

International Conference on Computer Networks and Information Technology

2013 ANTARABANGSA BEST PAPER AWARD