



## PROF. MADYA TS. DR. MUS'AB BIN SAHRIM

PENSYARAH UNIVERSITI DS14

### CONTACT

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**E-mail:**  
musab@usim.edu.my

**Faculty:** Fakulti  
Kejuruteraan Dan Alam  
Bina

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 2,  
Ongoing: 1

## AREAS OF EXPERTISE

Pattern And Image Recognition

Data Analytics

Artificial Intelligence And Robotic System

## ACADEMIC QUALIFICATION

PhD in Electronics And Electrical Engineering (2016)

Bachelor in Electronic And Communication Engineering  
(2010)

## RESEARCH

### 1. INTELLIGENT RNN-PID CONTROL OF A SELF-BALANCING WHEELCHAIR FOR MOBILITY ASSISTANCE

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING CO-RESEARCHER

### 2. QUANTUM-INSPIRED RESOURCE ALLOCATION FOR UAV-ASSISTED 6G NETWORKS

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING CO-RESEARCHER

### 3. DEVELOPING A FUNDAMENTAL FRAMEWORK FOR AI-BASED TRANSFORMER FAULT DIAGNOSIS USING DISSOLVED GAS ANALYSIS

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING CO-RESEARCHER

### 4. DEVELOPING A DECISION TREE MODEL: TOWARDS A PREDICTIVE TOOL FOR ANTIMICROBIAL RESISTANCE IN LOW-RESOURCE HEALTHCARE SETTINGS

2026 GERAN ANTARABANGSA ON GOING CO-RESEARCHER

## 5. DEVELOPMENT OF ARTIFICIAL INTELLIGENCE BASED INTEGRATED UNMANNED AIRCRAFT COUNTERMEASURES AND MANAGEMENT SYSTEM

2025

GERAN KPT

ON GOING

CO-RESEARCHER

# RESEARCH

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## 6. PROTOTYPE DEVELOPMENT OF A REAL-TIME UAV-BASED DEEP LEARNING SYSTEM FOR AUTOMATED DURIAN DETECTION AND YIELD MONITORING

2025 GERAN PEMBANGUNAN INOVASI (GPI) ON GOING MAIN RESEARCHER

## 7. DEVELOPMENT OF ARTIFICIAL INTELLIGENCE BASED INTEGRATED UNMANNED AIRCRAFT COUNTERMEASURES AND MANAGEMENT SYSTEM

2025 GERAN PENYELIDIKAN INDUSTRI ON GOING CO-RESEARCHER

## 8. DEEP LEARNING ANALYSIS OF MANDIBULAR THIRD MOLAR AND INFERIOR ALVEOLAR NERVE IN DENTAL PANORAMIC TOMOGRAPHY.

2024 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 9. DEVELOPMENT AND APPLICATION OF LSTM AND GRU METHODS TO RECOGNIZE HAND MOVEMENTS, POSE AND FACE BASED ON REAL-TIME INTERPRETATION OF INDONESIAN - MALAYSIA SIGN LANGUAGE

2023 GERAN ANTARABANGSA ON GOING MAIN RESEARCHER

## 10. ANALYZING THE RELATIONSHIP BETWEEN MANDIBULAR THIRD MOLAR AND INFERIOR ALVEOLAR NERVE IN DENTAL PANORAMIC TOMOGRAPHY BY USING DEEP LEARNING

2023 BIDUNI MIZANNIYAH COMPLETED CO-RESEARCHER

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

2023 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

## 12. INVESTIGATING FACTORS PROMOTING FACT-CHECKING FOR MITIGATING FAKE NEWS WITHIN MALAY INSTANT MESSAGING GROUPS

2023 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 13. RESOURCE MANAGEMENT OPTIMIZATION IN 6G NETWORK FOR SMART GRID COMMUNICATIONS USING DEEP LEARNING

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 14. TAARIQ: AUTONOMOUS PERSON-FOLLOWING TELEPRESENCE ROBOT USING STEREO CAMERA AND DEEP LEARNING YOLO

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 15. DEVELOPMENT OF MOBILE APPLICATION FOR WOMEN'S "PRELOVED" BUSINESS PLATFORM: FASHION ARCADE (FACADE)

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

## 16. AUTONOMOUS HUMAN DETECTION AND LOCALIZATION USING MACHINE LEARNING

2021 GERAN KPT (KKP) COMPLETED MAIN RESEARCHER

## 17. MOBILITY AND HANDOVER OPTIMIZATION FOR DEEP LEARNING ASSISTED ULTRA-DENSE 6G HETEROGENEOUS NETWORKS

2021 GERAN KPT ON GOING CO-RESEARCHER

## 18. AUTOMATIC DISINFECTION CHAMBER

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED CO-RESEARCHER

## 19. STUDY OF RAINFALL EFFECT TO OPTIMIZE POWER LINES PERFORMANCE

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED CO-RESEARCHER

## 20. NEW OPTIMAL ENERGY-EFFICIENT CONTROL OF FLEXIBLE SYSTEMS WITH SIMULTANEOUS PAYLOAD HOISTING AND WIND DISTURBANCE

2020 GERAN KPT ON GOING CO-RESEARCHER

## 21. IMPROVED INCENTIVE PRICING MODELS OF INTERNET UNDER MULTIPLE QOS NETWORKS

2019 GERAN KPT ON GOING MAIN RESEARCHER

# RESEARCH

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## 22. SURVIVORS IDENTIFICATION AND LOCALIZATION FOR SAR ROBOTICS SYSTEM USING MACHINE LEARNING

2019 GERAN SEPADAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

## 23. USIMAKERS (INDUSTRY4WRD - INDUSTRY@UNIVERSITY)

2019 PROJEK REVOLUSI INDUSTRI 4.0 COMPLETED CO-RESEARCHER

## 24. INVESTIGATING LIGHT SCATTERING ON PROPERTIES OF RANDOM LASERS BASED ON SCATTERING PROBABILITY THEORY FOR POTENTIAL USE IN MEDICAL AND BIOSENSING APPLICATIONS

2019 GERAN KPT COMPLETED CO-RESEARCHER

## 25. THE STUDY OF DRUNKEN ABNORMAL HUMAN GAIT RECOGNITION USING ACCELEROMETERS IN MOBILE APPLICATION

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

## 26. ANALYZING PERFORMANCE OF RANDOM LASERS AS THE OPTICAL DEVICES FOR BIOSENSING AND MEDICAL APPLICATIONS

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 27. ULTRA-HIGH SENSITIVE BIOANALYTICAL DETERMINATION OF LARD USING NANOHYBRID BIOSENSING APPROACH AS A TOOL FOR HALAL PRODUCT INVESTIGATION

2018 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

## 28. NUMERICAL SOLUTION FOR ISLAMIC PRICING OPTION USING A MODIFIED 2 POINT BLOCK BACKWARDS DIFFERENCE METHOD

2017 GERAN KPT COMPLETED CO-RESEARCHER

# PUBLICATION

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## 1. ASSESSING ARABIC LANGUAGE EXPOSURE INSTRUMENT (I-ALEX) IN HIGHER EDUCATION USING THE RASCH MEASUREMENT MODEL

IJAZ ARABI JOURNAL OF ARABIC LEARNING

2025 JOURNAL OTHER DATABASE CO-AUTHOR

## 2. SIMILARITY LEARNING BASED ON MULTIMODEL RECORDS WITH UNSTRUCTURED REPORTS

2025 10TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND SIGNAL PROCESSING (ICSP)

2025 PROCEEDING SCOPUS CO-AUTHOR

## 3. PRE-TRAINING WITH SIAMESE NETWORKS USING SELF-SUPERVISED INFORMATION FOR UNLABELED IMAGES

2025 IEEE 31TH INTERNATIONAL CONFERENCE ON PARALLEL AND DISTRIBUTED SYSTEMS (ICPADS) |

2025 PROCEEDING WOS CO-AUTHOR

## 4. AUTONOMOUS PERSON-FOLLOWING TELEPRESENCE ROBOT USING MONOCULAR CAMERA AND DEEP LEARNING YOLO

APPLICATIONS OF MODELLING AND SIMULATION

2024 JOURNAL SCOPUS CO-AUTHOR

## 5. ENHANCING ARABIC VOCABULARY MASTERY THROUGH AUGMENTED REALITY: A STUDY ON AR-MUFRADAT APPLICATION FOR PRIMARY SCHOOL STUDENTS

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

2024 JOURNAL OTHER DATABASE CO-AUTHOR

## 6. DETECTING SIGNAL TRANSITION IN DYNAMIC SIGN LANGUAGE USING R-GB LSTM METHOD

INTERNATIONAL JOURNAL OF ADVANCES IN INTELLIGENT INFORMATICS

2024 JOURNAL OTHER DATABASE CO-AUTHOR

## 7. OPTIMIZATIONS OF IOT-EDGE COMPUTING IN SMART GRID WIDE AREA NETWORK.

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

## 8. AUGMENTED REALITY TECHNOLOGY IN LEARNING ARABIC VOCABULARY FROM THE PERCEPTION OF UNIVERSITY STUDENTS

INTERNATIONAL JOURNAL OF INTERACTIVE MOBILE TECHNOLOGIES (IJIM)

2023 JOURNAL SCOPUS AND ERA CORRESPONDING AUTHOR

## 9. A REVIEW ON CURRENT DIAGNOSTIC TOOLS AND POTENTIAL OPTICAL ABSORPTION SPECTROSCOPY FOR HFMD DETECTION

ANALYTICAL BIOCHEMISTRY

2023 JOURNAL ERA CO-AUTHOR

## 10. DURIAN DETECTION AND COUNTING SYSTEM USING DEEP LEARNING

JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY

2023 JOURNAL ERA CO-AUTHOR

## 11. PRINCIPLES, CHARACTERISTICS AND APPLICATION OF OPTICAL FIBRE IN TELECOMMUNICATION AND SENSORY SYSTEM

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

## 12. THE SMART GRASS-CUTTING ROBOT WITH UPCYCLING SOLAR MODULE

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

## 13. OPTICAL SPECTROSCOPY POTENTIAL APPROACH FOR EARLY DISEASE DETECTION: HFMD CASE

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

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## 14. KNOWLEDGE READINESS TO USE AUGMENTED REALITY IN TEACHING ARABIC AMONG PRIMARY SCHOOL TEACHERS IN MALAYSIA

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

## 15. TEACHERS' ATTITUDES TOWARDS THE USE OF AUGMENTED REALITY TECHNOLOGY IN TEACHING ARABIC IN PRIMARY SCHOOL MALAYSIA

INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

## 16. A REVIEW ON WATER QUALITY MONITORING METHODS BASED ON ELECTRONICS AND OPTICAL SENSING

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 17. IMAGE DETECTION AND CLASSIFICATION OF OIL PALM FRUIT BUNCHES

2022 4TH INTERNATIONAL CONFERENCE ON SMART SENSORS AND APPLICATION (ICSSA)

2022 PROCEEDING SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)

2021 JOURNAL JCR MAIN AUTHOR / CONTACT PERSON IN USIM

## 19. A STUDY ON THE SELF-SUSTAINING SOLAR MODULE BY UTILIZING SOLAR CELL FROM NON-DEGRADABLE WASTE

REKAYASA HIJAU: JURNAL TEKNOLOGI RAMAH LINGKUNGAN

2021 JOURNAL OTHER DATABASE CO-AUTHOR

## 20. ANALYSIS ON CLARITY OF RUBIES GEMSTONES USING CHARGE-COUPLED DEVICE (CCD)

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CO-AUTHOR

## 21. SIMULATION STUDY ON CCD TOMOGRAPHY SYSTEM FOR RUBY STONE OPTICAL PROPERTIES

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CO-AUTHOR

## 22. INVESTIGATING THE QUALITY OF MILK USING SPECTROMETRY TECHNIQUE AND SCATTERING THEORY

ENGINEERING, TECHNOLOGY & APPLIED SCIENCE RESEARCH

2021 JOURNAL WOS CO-AUTHOR

## 23. A STUDY ON EARLY DETECTION OF SEWER PIPELINE BLOCKAGE USING CCD TOMOGRAPHY APPROACH

INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 24. ELECTROCHEMICAL DETECTION OF TRIBUTYRIN USING PRUSSIAN BLUE FUNCTIONALIZED GLASSY CARBON ELECTRODE

2021 IEEE INTERNATIONAL CONFERENCE ON SENSORS AND NANOTECHNOLOGY (SENNANO)

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 25. ELECTROCHEMICAL DETECTION OF TRIBUTYRIN USING GOLD NANOPARTICLE FUNCTIONALIZED SCREEN-PRINTED ELECTRODE

2021 IEEE 19TH STUDENT CONFERENCE ON RESEARCH AND DEVELOPMENT (SCORED)

2021 PROCEEDING NON-INDEX CO-AUTHOR

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

2021 INTERNATIONAL CONFERENCE ON ELECTRICAL, COMMUNICATION, AND COMPUTER ENGINEERING (ICECCE)

2021 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 27. EMOTION DETECTION BASED ON AUDIO/VOICE SIGNAL FOR AUTISM SPECTRUM DISORDER (ASD) USING CORRELATION METHOD

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

## 28. RADIO OVER FIBRE FREE SPACE OPTICS (ROFSO) SYSTEM

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

## 29. A STUDY ON MALAYSIA ATMOSPHERIC EFFECT ON RADIO OVER FREE SPACE OPTIC THROUGH RADIO FREQUENCY SIGNAL AND LIGHT PROPAGATION IN FIBER FOR FUTURE COMMUNICATION DEVELOPMENT

AIP CONFERENCE PROCEEDINGS

2020 JOURNAL SCOPUS CO-AUTHOR

## 30. THE DEVELOPMENT OF SALAH CHAIR USING ELECTRONIC SENSOR TO ASSIST DISABLED MUSLIMS IN PERFORMING PRAYERS

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 JOURNAL OTHER DATABASE CO-AUTHOR

## 31. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

## 32. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

## 33. PRINCIPLES AND CHARACTERISTICS OF RANDOM LASERS AND THEIR APPLICATIONS IN MEDICAL, BIOIMAGING AND BIOSENSING

AIP CONFERENCE PROCEEDINGS

2020 JOURNAL SCOPUS CO-AUTHOR

## 34. INVESTIGATING LIGHT PROPAGATION IN FULL AND SKIMMED MILK BASED ON SPECTROSCOPY AND MONTE CARLO ANALYSIS

JOURNAL OF ENGINEERING AND APPLIED SCIENCE

2020 JOURNAL SCOPUS CO-AUTHOR

## 35. THE EFFECT OF MOTIVATION ON ARABIC COLLOCATION KNOWLEDGE: THE MEDIATING ROLE OF COLLOCATION LEARNING STRATEGIES

JOURNAL OF NUSANTARA STUDIES (JONUS)

2020 JOURNAL WOS MAIN AUTHOR

## 36. THE LEVEL OF STUDENTS ENGAGEMENT IN ARABIC LANGUAGE WITHIN PUBLIC UNIVERSITIES

ASIA PACIFIC JOURNAL OF EDUCATORS AND EDUCATION (APJEE)

2020 JOURNAL SCOPUS MAIN AUTHOR

## 37. STRATEGI PEMBELAJARAN KOLOKASI BAHASA ARAB DALAM KALANGAN PELAJAR UNIVERSITI AWAM MALAYSIA

GEMA ONLINE JOURNAL OF LANGUAGE STUDIES

2019 JOURNAL ERA CO-AUTHOR

## 38. A SIMPLE YET RELIABLE FACIAL EMOTION DETECTION FOR CAMPUS ENVIRONMENT

INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)

2019 JOURNAL SCOPUS CO-AUTHOR

## 39. TAHAP MOTIVASI HOLISTIK, INTRINSIK DAN EKSTRINSIK TERHADAP PEMBELAJARAN KOSA KATA BAHASA ARAB DALAM KALANGAN GRADUAN UNIVERSITI AWAM

THE ASIA PACIFIC JOURNAL OF EDUCATORS AND EDUCATION

2019 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 40. FINITE ELEMENT MODELING OF OVERHEAD LINE THERMAL RATING METHOD

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 41. PERFORMANCE ANALYSIS OF SISO AND MIMO FSO COMMUNICATION UNDER MALAYSIA WEATHER CONDITION BY EMPLOYING OPTISYTEM

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 42. ADVANCES IN SUSTAINABLE LIVING : ENGINEERING & BUILT ENVIRONMENT

2019 BOOK CO-AUTHOR & CO-EDITOR

## 43. ISLAMIC PERSPECTIVE ON SUSTAINABILITY IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

## 44. ISLAMIC PERSPECTIVE ON RECYCLING IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

## 45. DEVICES IN OPTICS, TOMOGRAPHY AND BIOSENSING

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

## 46. PLASMONIC EFFECT ON PERFORMANCE OF RANDOM LASERS

ADVANCED SCIENCE LETTERS

2018 JOURNAL SCOPUS CO-AUTHOR

## 47. AORTIC ANNULUS SIZING USING WATERSHED TRANSFORM AND MORPHOLOGICAL APPROACH FOR CT IMAGES

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL WOS CO-AUTHOR

## 48. DPSK OTDM DEMULTIPLEXING USING FLEXIBLE PULSE CLOCK FROM RAMAN AMPLIFIER-SOLITON COMPRESSOR

ADVANCED SCIENCE LETTERS

2018 JOURNAL SCOPUS CO-AUTHOR

## 49. AUTOMATED FEATURE DESCRIPTION OF RENAL SIZE USING IMAGE PROCESSING

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE)

2018 JOURNAL SCOPUS MAIN AUTHOR

## 50. SOLUTION FOR NONLINEAR RICCATI EQUATION BY BLOCK METHOD

PROCEEDING OF THE 25TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES (SKSM25)

2018 JOURNAL SCOPUS CO-AUTHOR

## 51. AUTOMATIC FEATURE DESCRIPTION OF ENDOMETRIOMA IN ULTRASONIC IMAGES OF THE OVARY

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE)

2018 JOURNAL SCOPUS CO-AUTHOR

## 52. AUTOMATED FEATURE DESCRIPTION OF FOLLICLE SIZE IN ASSISTED REPRODUCTIVE TREATMENT

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE)

2018 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 53. OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE FOR TRANSPARENT OBJECT DETECTION

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE)

2018 JOURNAL SCOPUS CO-AUTHOR

## 54. DESIGN AND FABRICATION OF POLYDIMETHYLSILOXANE BASED LOW COST MICROFLUIDIC FOR ULTRA-FAST DIAGNOSTIC APPLICATIONS

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE)

2018 JOURNAL SCOPUS CO-AUTHOR

## 55. POLY(VINYLPYRROLIDINONE)-IRON MAGNETIC NANOCOMPOSITES AS SORBENTS FOR EFFECTIVE OIL REMOVAL FROM WATER

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

## 56. KESAHAN DAN KEBOLEHPERCAYAAN INSTRUMEN PENGETAHUAN KOLOKASI BAHASA ARAB IPT (I-KAC IPT) MENGGUNAKAN MODEL PENGUKURAN RASCH

ASEAN COMPARATIVE EDUCATION RESEARCH JOURNAL ON ISLAM AND CIVILIZATION (ACER-J)

2018 JOURNAL OTHER DATABASE CO-AUTHOR

## 57. VALIDITY AND REALIBILITY OF ARABIC COLLOCATION LEARNING STRATEGIES INSTRUMENT: ANALYSIS USING RASCH MODEL

MALAYSIA JOURNAL OF EDUCATION (MJE)

2018 JOURNAL OTHER DATABASE CO-AUTHOR

## 58. DEVELOPMENT OF AUTOMATIC QURANIC RECITATION BASED ON EMOTION DETECTION FROM SPEECH ANALYSIS USING RESONANCE THEORY

CONTEMPORARY ISSUES ISLAM AND SCIENCE

2018 CHAPTER IN BOOK MAIN AUTHOR

## 59. SIMPLE YET RELIABLE FACE DETECTION FOR SECURITY SYSTEM IN CAMPUS ENVIRONMENT

CONTEMPORARY ISSUES ISLAM AND SCIENCE

2018 CHAPTER IN BOOK CO-AUTHOR

## 60. HALAL SENSOR DEVELOPMENT OF OPTICAL TOMOGRAPHY SYSTEM FOR SOLID CONTAMINATION DETECTION

CONTEMPORARY ISSUES ISLAM AND SCIENCE

2018 CHAPTER IN BOOK CO-AUTHOR

## 61. HALAL SENSOR DEVELOPMENT OF OPTICAL TOMOGRAPHY SYSTEM FOR SOLID CONTAMINATION DETECTION

CONTEMPORARY ISSUES ISLAM AND SCIENCE

2018 CHAPTER IN BOOK CO-AUTHOR

## 62. RADIO OVER FIBER UNDER MALAYSIA ATMOSPHERIC USING OPTISYSTEM SIMULATOR FOR NEXT GENERATION COMMUNICATION

CONTEMPORARY ISSUES ISLAM AND SCIENCE

2018 CHAPTER IN BOOK CO-AUTHOR

## 63. SOLUTION FOR NONLINEAR DUFFING OSCILLATOR USING VARIABLE ORDER VARIABLE STEPSIZE BLOCK METHOD

MATEMATIKA

2017 JOURNAL WOS CO-AUTHOR

## 64. WAVELET-BASED AORTIC ANNULUS SIZING OF ECHOCARDIOGRAPHY IMAGES

IEEE XPLORE, INTERNATIONAL CONFERENCE ON SIGNAL AND IMAGE PROCESSING APPLICATIONS (ICSIPA), 2017

2017 JOURNAL WOS CO-AUTHOR

## 65. AN INVESTIGATION ON THE POWER SYSTEM STABILITY OF PHOTOVOLTAIC GRID INTEGRATED SYSTEM

IEEE XPLORE, 2017 7TH IEEE INTERNATIONAL CONFERENCE ON CONTROL SYSTEM, COMPUTING AND ENGINEERING (ICCSCE)

2017 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 66. WAVELET-BASED AORTIC ANNULUS SIZING OF ECHOCARDIOGRAPHY IMAGES

2017 IEEE INTERNATIONAL CONFERENCE ON SIGNAL AND IMAGE PROCESSING APPLICATIONS (IEEE ICSIPA 2017)

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 67. BLOOD VESSEL FEATURE DESCRIPTION FOR DETECTION OF ALZHEIMERS DISEASE

2014 13TH INTERNATIONAL CONFERENCE ON CONTROL AUTOMATION ROBOTICS & VISION (ICARCV),

2014 PROCEEDING NON-INDEX MAIN AUTHOR

## 68. ON BLOODVESSEL BRANCHING ANALYSIS FOR THE DETECTION OF ALZHEIMER'S DISEASE

18TH ANNUAL CONFERENCE IN MEDICAL IMAGE UNDERSTANDING AND ANALYSIS 2014

2014 PROCEEDING NON-INDEX MAIN AUTHOR

## 69. ANALYSING MORPHOLOGICAL PATTERNS OF BLOOD VESSELS FOR DETECTION OF ALZHEIMER'S DISEASE

2013 IEEE NUCLEAR SCIENCE SYMPOSIUM AND MEDICAL IMAGING CONFERENCE (NSS/MIC)

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 70. A NOVEL TOOL FOR THE ANALYSIS OF THE MORPHOLOGICAL PATTERN OF BLOOD VESSEL. RELEVANCE TO EARLY DIAGNOSIS OF ALZHEIMER'S DISEASE

BIOMARKERS IN BRAIN DISORDERS

2013 PROCEEDING NON-INDEX MAIN AUTHOR

# AWARDS/RECOGNITION

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## 1. CERTIFICATE OF BEST PRESENTATION IN SESSION

2025 INTERNATIONAL

## 2. KOD JAWI GPT TOWARDS AI SYARIAH

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

## 3. INVESTIGATING FACTORS PROMOTING FACT-CHECKING FOR MITIGATING FAKE NEWS WITHIN MALAY INSTANT MESSAGING GROUPS

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

## 4. VISITING SCHOLAR

CENTER FOR SOUTHEAST ASIAN STUDIES, KYOTO UNIVERSITY

2023 INTERNATIONAL

## 5. VISITING PROFESOR

SHIBAURA INSTITUTE OF TECHNOLOGY, JAPAN

2022 INTERNATIONAL

## 6. SMART PARCEL DROP BOX

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022 ANTARABANGSA SILVER

## 7. ACADEMIC ADVISOR

SMARTCORE DIGITAL SDN. BHD

2021 NATIONAL

## 8. AR-FASEH: REKA BENTUK DAN PEMBANGUNAN APLIKASI PEMBELAJARAN KOSA KATA BAHASA ARAB BERASASKAN TEKNOLOGI REALITI TERIMBUH (AUGMENTED REALITY)

Kongres dan Pertandingan Inovasi dalam Pengajaran dan Pembelajaran (kNovasi 2021)

2021 KEBANGSAAN GOLD

## 9. WATER QUALITY MONITORING USING CPS APPROACH

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI BRONZE

## 10. STORYBOARD AR-FASEH: APLIKASI KOSA KATA BAHASA ARAB BERASASKAN TEKNOLOGI REALITI TERIMBUH (AR)

PENDAFTARAN HARTA INTELEK MALAYSIA

2021 KEBANGSAAN

## 11. INSTRUMEN STRATEG PEMBELAJARAN KOLOKASI BAHASA ARAB (SPKBA)

PENDAFTARAN HARTA INTELEK MALAYSIA

2021 KEBANGSAAN

## 12. ANUGERAH PERKHIDMATAN CEMERLANG

2020 UNIVERSITY

## 13. ACADEMIC ADVISOR

UZMA INTEGRATED SOLUTION SDN BHD

2020 NATIONAL

**14. THE FLICKER: SECURE FREE SPACE OPTICS COMMUNICATION FOR NAVAL**

INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTIONS BY INSTITUTIONS OF HIGHER LEARNING (PECIPTA'19

2019

ANTARABANGSA

SILVER

# AWARDS/RECOGNITION

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## 15. ILLEGAL DUMPING DETECTION SYSTEM

INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (iidex2019)

2019 ANTARABANGSA BRONZE

## 16. AUTOMATED MOTION DETECTION SECURITY SYSTEM NOTIFIER USING RASPBERRY PI WITH TELEGRAM

INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (iidex2019)

2019 ANTARABANGSA BRONZE

## 17. SMART WATER TURBIDITY LEVEL MEASUREMENT WITH IOT ENABLED FOR ENVIRONMENT MONITORING APPLICATION

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI SILVER

## 18. SPEECH-BASED GENDER RECOGNITION

ISLAMIC INNOVATION STUDENT COMPETITION 2018 (IREKA'18)

2018 UNIVERSITI SILVER

## 19. A SIMPLE FACE DETECTION METHOD IN CAMPUS ENVIRONMENT TOWARDS A SUSTAINABLE WELL-BEING SOCIETY

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI SILVER

## 20. INVENTORI KOLOKASI LARAS AKADEMIK BAHASA ARAB BERASASKAN KORPUS-IKAC

SIMPOSIUM KEBANGSAAN KECEMERLANGAN PENDIDIKAN ISLAM DAN BAHASA ARAB 2017

2017 KEBANGSAAN SILVER

## 21. MODEL PENGETAHUNA KOLOKASI BAHASA ARAB DALAM KALANGAN PELAJAR UNIVERSITI AWAM ( GOLD MEDAL)

WORLD ARABIC LANGUAGE DAY

2017 KEBANGSAAN GOLD

## 22. MODEL PENGETAHUAN KOLOKASI BAHASA ARAB DALAM KALANGAN PELAJAR UNIVERSITI AWAM (GOLD MEDAL)

WORLD ARABIC LANGUAGE DAY 2017 (WALD-2017)

2017 ANTARABANGSA GOLD