



**PROF. MADYA IR. TS.  
DR. JULIZA BINTI  
JAMALUDIN**

PENSYARAH UNIVERSITI DS14

## CONTACT

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**Faculty:** Fakulti  
Kejuruteraan Dan Alam  
Bina

## SUPERVISION

PhD - Completed: 0, Ongoing: 2

Master - Completed: 3,  
Ongoing: 4

## AREAS OF EXPERTISE

Sensor Technology In Control And Instrumentation

Digital Tomography (including Computer Tomography)

Optical And Optoelectronics Engineering

## ACADEMIC QUALIFICATION

PhD in Kejuruteraan Elektrik (2016)

Master in Kejuruteraan Elektrik- Mekanik Dan Kawalan  
Automatik (2013)

Bachelor in Kejuruteraan Elektrik- Kawalan Dan  
Instrumentasi (2008)

## RESEARCH

### 1. ANOMALY DETECTION IN WATER QUALITY PARAMETERS AND POLLUTION PREDICTION BASED ON REGRESSION AND RANDOM FOREST THEORY

2026

GERAN SEPADAN ANTARABANGSA

ON GOING

CO-RESEARCHER

### 2. THE EFFECTIVENESS OF REMOTE PHOTOPLETHYSMOGRAPHY (PPG) TECHNOLOGY IN ASSESSING VITAL SIGN AMONG PATIENTS VISITED DENTAL CLINICS

2025

GERAN PENYELIDIKAN INDUSTRI

ON GOING

CO-RESEARCHER

### 3. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR INDUSTRIAL PIPELINE INTEGRITY MONITORING

2025

BIDUNI MIZANNIYAH

ON GOING

MAIN RESEARCHER

### 4. GOLD AUTHENTICATION SYSTEM

2025

GERAN PENYELIDIKAN INDUSTRI

ON GOING

MAIN RESEARCHER

### 5. UAV-BASED AUTOMATED OIL PALM TREE DETECTION AND COUNTING

2025

GERAN PENYELIDIKAN INDUSTRI

ON GOING

CO-RESEARCHER

# RESEARCH

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## 6. SURFACE PLASMON RESONANCE-BASED PHOTONIC CRYSTAL FIBER SENSOR FOR ACCURATE MICROPLASTIC DETECTION IN WATER USING ARTIFICIAL NEURAL NETWORKS

2025 GERAN KPT ON GOING CO-RESEARCHER

## 7. INVESTIGATING THE POTENTIAL OF PORTABLE WATER QUALITY INSPECTION SYSTEM INTEGRATED WITH TF MINI-S LIDAR AND IOT MONITORING SYSTEM

2024 GERAN ANTARABANGSA ON GOING MAIN RESEARCHER

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

2024 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 9. SALAH CHAIR

2023 GERAN PENYELIDIKAN LAB2MARKET ON GOING MAIN RESEARCHER

## 10. DEVELOPMENT OF UPPER LIMB EXOSKELETON SYSTEM

2023 GERAN PEMBANGUNAN INOVASI (GPI) ON GOING MAIN RESEARCHER

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

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

## 12. CONCEPTUAL MODELLING OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

2022 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

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

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

## 14. DEVELOPMENT OF LASER ILLUMINATION WARNING SYSTEM BASED ON LASER PHOTODIODE AND DETECTION TECHNOLOGY

2022 GERAN PENYELIDIKAN INDUSTRI COMPLETED CO-RESEARCHER

## 15. A CONCEPTUAL MODELLING OF QUANTITATIVE GRADING VALUATION OF RUBY STONE VIA USING CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY APPROACH

2020 GERAN KPT COMPLETED MAIN RESEARCHER

## 16. OPTIMIZATION OF NEAR INFRARED SPECTROSCOPY (NIRS) CONFIGURATION PARAMETERS FOR HAND, FOOT AND MOUTH DISEASE (HFMD) DETECTION

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED CO-RESEARCHER

## 17. 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

## 18. SECURITY-HARDENED DESIGN SPACE EXPLORATION FOR HARD REAL-TIME EMBEDDED NOC IN CYBER-PHYSICAL SYSTEMS

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

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

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

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

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 21. 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

# PUBLICATION

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## 1. THE IDENTIFICATION OF OPTIMAL FREQUENCY FOR ULTRASONIC TRANSDUCERS IN CONCRETE-DEFECT DETECTION USING COMSOL<sup>®</sup> SIMULATOR

ELEKTRIKA

2025 JOURNAL OTHER DATABASE CO-AUTHOR

## 2. ASSISTIVE PRAYER TECHNOLOGY: DEVELOPING A RAKAAT TRACKING SYSTEM FOR ELDERLY MUSLIMS WITH PHYSICAL LIMITATIONS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 3. EXPLORING LIDAR AS A SCALABLE PHOTONIC ALTERNATIVE TO TURBIDIMETERS FOR WATER TURBIDITY MONITORING

JURNAL OPTOELEKTRONIK

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 4. POTENTIAL OF PORTABLE SOLAR POWERED ELECTROLYSIS SYSTEM FOR OFF-GRID HYDROGEN GENERATION

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 5. SIMULATION OF A DUAL-SIDE POLISHED PHOTONIC CRYSTAL FIBER FOR SURFACE PLASMON RESONANCE SENSING

JURNAL OPTOELEKTRONIK

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 6. NUMERICAL OPTIMIZATION OF A SINGLE-MODE FIBER-BASED SPR SENSOR FOR AIR CONTAMINANT DETECTION APPLICATIONS

JURNAL OPTOELEKTRONIK

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 7. OVERVIEW ON PIPELINE LEAKAGE IN CARBON CAPTURE STORAGE

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

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 8. SIMULATION-BASED ULTRASONIC WAVE ANALYSIS FOR NON-DESTRUCTIVE GOLD AUTHENTICATION

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 9. CONCEPTUAL MODELLING OF GOLD AUTHENTICATION SYSTEM BASED ON ULTRASOUND PROPAGATION ANALYSIS

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 10. ADVANCEMENTS IN HAND ASSISTIVE TECHNOLOGIES FOR STROKE REHABILITATION: A SYSTEMATIC REVIEW OF MECHANISMS AND INNOVATIONS

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

2025 PROCEEDING SCOPUS CORRESPONDING AUTHOR

## 11. ULTRASONIC TOMOGRAPHY APPROACH FOR DETECTING FOREIGN OBJECTS IN MILK PACKAGING: A SIMULATION STUDY

AI APPLICATIONS IN FOOD PROCESSING AND PACKAGING

2025 CHAPTER IN BOOK CORRESPONDING AUTHOR

## 12. PROPOSED FRAMEWORK FOR SPATIAL MODELING OF PARTICULATE METTER 2.5 (PM2.5) CONCENTRATION USING COMBINATION OF GEOSTATISTICAL AND MIX ENSEMBLE MODEL

SENSOR & INSTRUMENTATION SYSTEM SERIES 42

2025 CHAPTER IN BOOK CO-AUTHOR

## 13. SMART SURVEILLANCE CAMERA SYSTEM: REAL-TIME WEAPON AND MASK DETECTION WITH TELEGRAM NOTIFICATION

SENSOR & INSTRUMENTATION SYSTEM

2025 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

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## 14. ASAM DI DARART, IKAN DI LAUT, DI DALAM BELANGA BERTEMU JUGA

ASPIRASI DAN MEMOIR HAL EHWAL PELAJAR DAN ALUMNI- MERENTAS SEJARAH MENJANA IMPAK

2025 CHAPTER IN BOOK MAIN AUTHOR

## 15. A CONCEPTUAL MODELING OF ULTRASONIC TOMOGRAPHY SYSTEM TO DETECT EARLY CARIES LESIONS

JURNAL TEKNOLOGI

2024 JOURNAL ERA CORRESPONDING AUTHOR

## 16. APPLICATION OF PHOTOACOUSTIC SYSTEM FOR CARIES DETECTION: SYSTEMATIC REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 17. DETECTION OF CHEMICAL CONTAMINANTS IN WATER FOR IRRIGATION SYSTEMS: A SYSTEMATIC REVIEW

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 18. EMPOWERING MEDICAL STUDENTS BY FACILITATING CARDIOPULMONARY RESUSCITATION TRAINING FOR THEIR PEER

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 19. PRELIMINARY DESIGN: INTEGRATION OF ELECTROLYSIS AND THIN-FILM SOLAR TECHNOLOGY FOR ONBOARD HYDROGEN PRODUCTION IN FUEL CELL VEHICLE (FCV)

TECHNOLOGY, ENGINEERING, AND SCIENCE INTERNATIONAL CONFERENCE (THESIS 2024) - HYBRID

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 20. INTERNATIONAL FINAL YEAR PROJECT COMPETITION AND EXHIBITION (ICPEX) 2023

INTERNATIONAL FINAL YEAR PROJECT COMPETITION AND EXHIBITION (ICPEX) 2023

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 21. DESIGN OF BATTERY SWITCHING SYSTEM FOR MOTORISED-RING MAIN UNIT (M-RMU) SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 38

2024 CHAPTER IN BOOK CO-AUTHOR

## 22. DETECTION OF WATER CONTAMINATION USING SPECTROSCOPY

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

## 23. A5/1 STREAM CIPHER IN GLOBAL SYSTEM FOR MOBILE GSM EMPIRICAL PERSPECTIVES

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

## 24. REDESIGNING THE LASER WARNING SYSTEMS FOR MILITARY APPLICATIONS

ADVANCEMENT IN ENGINEERING TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

## 25. A CONCEPTUAL MODEL OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

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

ANALYTICAL BIOCHEMISTRY

2023 JOURNAL ERA CO-AUTHOR

# PUBLICATION

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

JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY

2023 JOURNAL ERA CO-AUTHOR

## 28. NON-INVASIVE GRADING TECHNIQUE FOR RUBY GEMSTONE USING CHARGE-COUPLED DEVICE (CCD)

ASEAN ENGINEERING JOURNAL

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 29. SIMULATION STUDY OF ULTRASONIC TOMOGRAPHY APPROACH IN DETECTING FOREIGN OBJECT IN MILK PACKAGING

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

## 30. INTEGRATION OF SENSING FRAMEWORK WITH A DECISION SUPPORT SYSTEM FOR MONITORING WATER QUALITY IN AGRICULTURE

AGRICULTURE

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 31. A REVIEW ON OPTICAL COHERENCE TOMOGRAPHY (OCT) TECHNIQUE IN DENTISTRY APPLICATION: LIMITATIONS AND CHALLENGES

2023 1ST IEEE INTERNATIONAL CONFERENCE ON SMART TECHNOLOGY (ICE-SMARTEC). BANDUNG, INDONESIA, 17-19 JULY 2023

2023 PROCEEDING SCOPUS CORRESPONDING AUTHOR

## 32. A PRELIMINARY INVESTIGATION ON THE CORRELATION BETWEEN THE ARRIVAL TIME OF ULTRASONIC SIGNALS AND THE CONCRETE CONDITION

22ND ASIA SIMULATION CONFERENCE METHODS AND APPLICATIONS FOR MODELING AND SIMULATION OF COMPLEX SYSTEMS

2023 PROCEEDING SCOPUS CO-AUTHOR

## 33. A SIMULATION OF SINGLE AND SEGMENTED EXCITATION IN ELECTRICAL CAPACITANCE TOMOGRAPHY SYSTEM

22ND ASIA SIMULATION CONFERENCE METHODS AND APPLICATIONS FOR MODELING AND SIMULATION OF COMPLEX SYSTEMS

2023 PROCEEDING SCOPUS CO-AUTHOR

## 34. A CONCEPTUAL MODEL OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS: ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

8TH INTERNATIONAL CONFERENCE ON MAN MACHINE SYSTEMS 2023 JOURNAL OF PHYSICS: CONFERENCE SERIES

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 35. BENEFIT OF MIXED MODULATION FORMAT IN OPTICAL NETWORK : AN OVERVIEW

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

## 36. 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

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

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

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

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

## 39. SYSTEM IDENTIFICATION AND POSITION CONTROL OF PNEUMATIC ACTUATOR

SENSOR & INSTRUMENTATION SYSTEM SERIES 34

2023 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

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## 40. DUAL-AXIS PHOTOVOLTAIC TRACKING SYSTEM REAL-TIME ONLINE MONITORING USING THINGSPEAK

SENSOR & INSTRUMENTATION SYSTEM SERIES 34

2023 CHAPTER IN BOOK CO-AUTHOR

## 41. DISTANCE MEASUREMENT AND OBSTACLE DETECTION

SENSOR & INSTRUMENTATION SYSTEM SERIES 33

2023 CHAPTER IN BOOK CO-AUTHOR

## 42. POWER MANAGEMENT SYSTEM OF HOME APPLIANCES

SENSOR & INSTRUMENTATION SYSTEM SERIES 33

2023 CHAPTER IN BOOK CO-AUTHOR

## 43. SMART PARKING SYSTEM IN UTM BASED ON IOT

SENSOR & INSTRUMENTATION SYSTEM SERIES 35

2023 CHAPTER IN BOOK CO-AUTHOR

## 44. FLOOD WARNING, PREVENTING, CONTROL, AND MONITORING SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 35

2023 CHAPTER IN BOOK CO-AUTHOR

## 45. DESIGN AND ANALYSIS OF WATER QUALITY MONITORING AND FILTRATION SYSTEM FOR DIFFERENT TYPES OF WATER IN MALAYSIA

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY

2022 JOURNAL ERA CO-AUTHOR

## 46. ADVANCEMENTS IN MONITORING WATER QUALITY BASED ON VARIOUS SENSING METHODS: A SYSTEMATIC REVIEW

INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH

2022 JOURNAL ERA CO-AUTHOR

## 47. SMART AUTOMATIC COOLING SYSTEM WITH REDUCED HUMIDITY EFFECT FOR PET HOUSE DURING COVID-19 CRISIS

ASM SCIENCE JOURNAL

2022 JOURNAL SCOPUS CO-AUTHOR

## 48. STRATEGIES IN IMPROVING THE BUILDING EFFICIENCY AND DAYLIGHTING: A CASE STUDY OF GREEN BUILDING

PLANNING MALAYSIA: JOURNAL OF THE MALAYSIAN INSTITUTE OF PLANNERS

2022 JOURNAL OTHER DATABASE CO-AUTHOR

## 49. RESILIENT LIVING BY OPTIMIZING THE BUILDING FACADE IN DESIGNING POST-COVID HOUSING

PLANNING MALAYSIA JOURNAL

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

## 50. 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

## 51. A STUDY ON THE ARRIVAL TIME OF ULTRASONIC WAVES IN CONCRETE MATERIAL

3RD INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION AND MECHATRONICS ENGINEERING (CIM2022)

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 52. A STUDY OF THE EFFECT OF PIPE MATERIAL IN ELECTRICAL CAPACITANCE TOMOGRAPHY FOR GAS-SOLID FLOW

3RD INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION AND MECHATRONICS ENGINEERING (CIM2022)

2022 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 53. EYE-SEE:AI-DEVELOPED DEVICE FOR THE VISUALLY IMPAIRED

SENSOR & INSTRUMENTATION SYSTEM

2022 CHAPTER IN BOOK CO-AUTHOR

## 54. LINEAR ARX MODELLING OF PNEUMATIC ACTUATOR SYSTEM

SENSOR & INSTRUMENTATION SYSTEM

2022 CHAPTER IN BOOK CO-AUTHOR

## 55. PASSIVE INFRARED SENSOR FOR HOME SECURITY SYSTEM

SENSOR & INSTRUMENTATION SYSTEM

2022 CHAPTER IN BOOK CO-AUTHOR

## 56. A RUBY STONE GRADING INSPECTION USING AN OPTICAL TOMOGRAPHY SYSTEM

ARTIFICIAL INTELLIGENCE AND SPECTROSCOPIC TECHNIQUES FOR GEMOLOGY APPLICATIONS

2022 CHAPTER IN BOOK CORRESPONDING AUTHOR

## 57. A FINITE ELEMENT METHOD USING COMSOL ON ERT APPLYING METAL WALL PIPE: EFFECT ON THE POTENTIAL DISTRIBUTION AND CURRENT STREAMLINE

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 58. INITIAL STUDY OF INVASIVE APPROACH OF ELECTRICAL CAPACITANCE TOMOGRAPHY FOR IDENTIFYING NONCONDUCTING MEDIUM IN STEEL PIPE APPLICATION

ELEKTRIKA- JOURNAL OF ELECTRICAL ENGINEERING

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

## 59. DOES PARALLEL PROJECTION IS SUITABLE IN ELECTRICAL CAPACITANCE TOMOGRAPHY? ?A COMPARISON WITH COMMON APPROACH

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 60. A PRELIMINARY RESULT ON ELECTRICAL CAPACITANCE TOMOGRAPHY FOR GAS-SOLID FLOW IN PNEUMATIC CONVEYOR SYSTEM.

ELEKTRIKA- JOURNAL OF ELECTRICAL ENGINEERING

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

## 61. MODELLING OF ERT FOR HOUSEHOLD UNDERGROUND PIPE DETECTION USING COMSOL MULTIPHYSICS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 62. ONLINE SIMULATION TO MONITOR MULTIPHASE FLOW USING LASER SOURCE AS TRANSMITTER

OPTIK-INTERNATIONAL JOURNAL FOR LIGHT AND ELECTRON OPTICS

2021 JOURNAL ISI, SCOPUS AND ERA MAIN AUTHOR

## 63. 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 CORRESPONDING AUTHOR

## 64. GAS-SOLID TWO-PHASE FLOW OF PULVERIZED COAL BY ECT: A REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

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

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

# PUBLICATION

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

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 67. NDT-DEFECT DETECTION ON CONCRETE USING ULTRASONIC: A REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 68. TOMOGRAPHY SYSTEM TOWARDS THE INDUSTRIAL REVOLUTION 4.0

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

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

ENGINEERING, TECHNOLOGY & APPLIED SCIENCE RESEARCH

2021 JOURNAL WOS CO-AUTHOR

## 70. CONCRETE-DEFECT DETECTION USING NEW ULTRASONIC ARRAY

ELEKTRIKA-JOURNAL OF ELECTRICAL ENGINEERING

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

## 71. ANALYSIS OF MILK FROM DIFFERENT SOURCES BASED ON LIGHT PROPAGATION AND RANDOM LASER PROPERTIES

PHOTONICS

2021 JOURNAL JCR CO-AUTHOR

## 72. AN APPLICATION OF CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY SYSTEM FOR GEMOLOGICAL INDUSTRY - A REVIEW

INNOVATIVE MANUFACTURING, MECHATRONICS AND MATERIALS FORUM 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 73. STUDY ON OPTICAL PROPERTIES OF MILK BASED ON LIGHT PROPAGATION THEORY

INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING (ICOB 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 74. CONCRETE-DEFECT DETECTION USING NEW ULTRASONIC ARRAY

INTERNATIONAL CONFERENCE ON ELECTRONICS, INSTRUMENTATION AND DEVICES (ICEID 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

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

STUDENT CONFERENCE ON RESEARCH AND DEVELOPMENT (SCORED)

2021 PROCEEDING NON-INDEX CO-AUTHOR

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

IEEE INTERNATIONAL CONFERENCE ON SENSORS & NANOTECHNOLOGY 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 77. INITIAL STUDY OF INVASIVE APPROACH OF ELECTRICAL CAPACITANCE TOMOGRAPHY FOR IDENTIFYING NON CONDUCTING MEDIUM IN STEEL PIPE APPLICATION

INTERNATIONAL CONFERENCE ON ELECTRONICS, INSTRUMENTATION AND DEVICES (ICEID 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 78. QR CODE FOR MATERNAL HEALTH SERVICE

SENSOR AND INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

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## 79. SENSORS / ACTUATORS FOR BIOMEDICAL APPLICATIONS: A REVIEW

SENSOR AND INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

## 80. EARLY WARNING AND MONITORING SYSTEM FOR ELECTRICAL MOTOR

SENSOR & INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

## 81. SMART FIRE SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 19

2021 CHAPTER IN BOOK CO-AUTHOR

## 82. QUANTITATIVE MEASUREMENT OF SMALL-SCALE MALAYSIAN BROILER HOUSE

SENSOR & INSTRUMENTATION SYSTEM SERIES 26

2021 CHAPTER IN BOOK CO-AUTHOR

## 83. WIRELESS PHOTOELECTRIC SMOKE SENSOR FOR BUILDING SAFETY

SENSOR & INSTRUMENTATION SYSTEM SERIES 26

2021 CHAPTER IN BOOK CO-AUTHOR

## 84. IOT BASED BLACK BOX FOR VEHICLES

SENSOR & INSTRUMENTATION SYSTEM SERIES 25

2021 CHAPTER IN BOOK CO-AUTHOR

## 85. 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

## 86. 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 MAIN AUTHOR

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

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CORRESPONDING AUTHOR

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

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR

## 89. 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

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

AIP CONFERENCE PROCEEDINGS

2020 JOURNAL SCOPUS CO-AUTHOR

## 91. CCD OPTICAL TOMOGRAPHY SYSTEM TO DETECT SOLID CONTAMINATION IN CRYSTAL-CLEAR WATER

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS

2020 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

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## 92. CYBER-PHYSICAL SYSTEM (CPS) APPLICATION\_A REVIEW

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 JOURNAL OTHER DATABASE MAIN AUTHOR

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

IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE, 3RD INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING 18 NOVEMBER 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 94. FUZZY LOGIC BASED ADAPTIVE INNOVATION MODEL

SCIENCE AND INFORMATION CONFERENCE

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 95. PERFORMANCE OF ROFSO OFDM SYSTEM UNDER MALAYSIA CLIMATIC CONDITION FOR WIRELESS COMMUNICATION

KOLOKIUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

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

KOLOKIUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020 SYNERGIZING INNOVATION AND RESEARCH THROUGH SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 97. CHARGE-COUPLED DEVICE OPTICAL TOMOGRAPHY SYSTEM FOR AIR BUBBLES DETECTION

2020 BOOK MAIN AUTHOR

## 98. SMART STREET LIGHTING SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 17

2020 CHAPTER IN BOOK CO-AUTHOR

## 99. REAL-TIME MONITORING DRIP IRRIGATION SYSTEM WITH AUTOMATIC WATERING PLANT USING WI-FI MODULE

SENSOR & INSTRUMENTATION SYSTEM SERIES 16

2020 CHAPTER IN BOOK CO-AUTHOR

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

INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)

2019 JOURNAL SCOPUS CO-AUTHOR

## 101. MICROWAVE TOMOGRAPHY SENSING FOR POTENTIAL AGARWOOD TREES IMAGING

COMPUTERS AND ELECTRONICS IN AGRICULTURE

2019 JOURNAL ERA CO-AUTHOR

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

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS (INCAPE 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 103. 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

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2019 (INCAPE 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

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

2019 BOOK EDITOR

# PUBLICATION

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

2019 BOOK EDITOR

## 106. ISLAMIC PERSPECTIVE ON SUSTAINABILITY IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

## 107. ISLAMIC PERSPECTIVE ON RECYCLING IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

## 108. DEVICES IN OPTICS, TOMOGRAPHY AND BIOSENSING

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK MAIN AUTHOR

## 109. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

EMERGING THEMES IN FUNDAMENTAL AND APPLIED SCIENCES

2019 CHAPTER IN BOOK MAIN AUTHOR

## 110. PLASMONIC EFFECT ON PERFORMANCE OF RANDOM LASERS

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2018 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

## 114. SIMULATION STUDY OF MICROWAVE IMAGING FOR BRAIN DISEASE DIAGNOSTIC

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

## 115. A STUDY OF ELECTRICAL RESISTANCE TOMOGRAPHY ON INHOMOGENEOUS SYSTEM

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

## 116. SIMULATION OF INVASIVE ULTRASONIC TOMOGRAPHY FOR THREE PHASE MIXTURE

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

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

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2018 JOURNAL SCOPUS CO-AUTHOR

## 119. FRONT-END DESIGN FOR NON-INVASIVE ELECTRICAL RESISTANCE TOMOGRAPHY FOR LIQUID COLUMN

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

## 121. ANALYSIS ON THE EFFECT OF SENSOR VIEWS IN IMAGE RECONSTRUCTION PRODUCED BY OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE

IEEE TRANSACTIONS ON IMAGE PROCESSING

2018 JOURNAL WOS MAIN AUTHOR

## 122. TOMOGRAPHY VALIDATION METHOD THROUGH STATISTICAL ANALYSIS OF VARIANCE TECHNIQUE

SYMPOSIUM ON INSTRUMENTATION AND SENSING TECHNOLOGY (SOINSET) 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

## 123. CYBER-PHYSICAL SYSTEM (CPS): STATE OF THE ART

IEEE ICE CUBE 2018 : INTERNATIONAL CONFERENCE ON COMPUTING, ELECTRONIC AND ELECTRICAL ENGINEERING

2018 PROCEEDING NON-INDEX MAIN AUTHOR

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

SEMINAR ANTARABANGASA ISLAM DAN SAINS (SAIS) 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 125. HALAL SENSOR- SOFTWARE DEVELOPMENT OF OPTICAL TOMOGRAPHY SYSTEM FOR SOLID CONTAMINATION IN BEVERAGES

SEMINAR ANTARABANGASA ISLAM DAN SAINS (SAIS) 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 126. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING TWO-PHASE FLOW

ELECTRONIC LETTERS

2017 JOURNAL WOS MAIN AUTHOR

## 127. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING MULTIPHASE FLOW

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2017 JOURNAL SCOPUS MAIN AUTHOR

## 128. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM IN DETECTING SOLID AND TRANSPARENT OBJECTS IN NON-FLOWING CRYSTAL CLEAR WATER.

INTERNATIONAL JOURNAL OF LIGHT AND ELECTRON OPTIC, ELSEVIER

2017 JOURNAL WOS MAIN AUTHOR

## 129. IMAGE RECONSTRUCTION MODELLING FOR OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE (CCD) LINEAR SENSOR

THE 3RD PUTRAJAYA INTERNATIONAL BUILT ENVIRONMENT, TECHNOLOGY AND ENGINEERING CONFERENCE 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 130. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

FUNDAMENTAL SCIENCE CONGRESS 2017 (FSC2017) ON 21ST TILL 22ND NOVEMBER 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

# PUBLICATION

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

INTERNATIONAL WORKSHOP ON COMPUTED TOMOGRAPHY AND IMAGING TECHNOLOGY

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 132. SENSOR AND INSTRUMENTATION SYSTEM

2017 BOOK EDITOR

## 133. ONLINE OPTICAL TOMOGRAPHY SYSTEM FOR DETECTING AND MEASURING DIAMETER OF SOLID AND TRANSPARENT OBJECTS

IEEE SENSOR JOURNAL

2016 JOURNAL WOS MAIN AUTHOR

## 134. OPTICAL TOMOGRAPHY SYSTEM: APPLICATION OF CHARGE COUPLED DEVICE FOR SOLID AND TRANSPARENT OBJECT DETECTION

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS MAIN AUTHOR

## 135. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER.

FLOW MEASUREMENT AND INSTRUMENTATION

2016 JOURNAL WOS MAIN AUTHOR

## 136. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER

JOURNAL OF INDEPENDENT STUDIES AND RESEARCH ? COMPUTING

2016 JOURNAL OTHER DATABASE MAIN AUTHOR

## 137. A REVIEW RELATIONS OF OPTICAL TOMOGRAPHY AND OPTICAL COHERANCE TOMOGRAPHY.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

## 138. SIMULATION STUDY ON NON-HOMOGENOUS SYSTEM OF NON-INVASIVE ERT USING COMSOL MULTIPHYSICS.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

## 139. SIMULATION STUDY ON ELECTRICAL RESISTANCE TOMOGRAPHY USING METAL WALL FOR BUBBLE DETECTION

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

## 140. INTRODUCING AN APPLICATION OF A CHARGED COUPLED DEVICE (CCD) IN AN OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

## 141. ANALYSIS ON THE PERFORMANCE OF LED AND LASER DIODE WITH CHARGE COUPLED DEVICE LINEAR SENSOR MEASURING DIAMETER OF OBJECT.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

## 142. A REVIEW OF THE OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS MAIN AUTHOR

## 143. OCTAGON MODELLING USING PARALLEL PROJECTION OF OPTICAL TOMOGRAPHY

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 144. PROGRESS IN PROCESS TOMOGRAPHY & INSTRUMENTATION SYSTEM

2014 BOOK CO-EDITOR

## 145. MOST OF RECENT MEDICAL APPLICATIONS BASED ON CAPACITIVE SENSOR

BOOK CHAPTERS- PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 CHAPTER IN BOOK CO-AUTHOR

## 146. OPTICAL TOMOGRAPHY SYSTEM USING LED AS A LIGHT SOURCE

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 CHAPTER IN BOOK CO-AUTHOR

## 147. WIRELESS SENSOR NETWORKS IN AIRCRAFT.

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 CHAPTER IN BOOK CO-AUTHOR

## 148. A REVIEW OF TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2013 JOURNAL SCOPUS MAIN AUTHOR

## 149. OPTICAL TOMOGRAPHY SYSTEM FOR BUBBLES DETECTION IN LIQUID MEDIUM.

ELECTRICAL ENGINEERING RESEARCH COLLOQUIUM FOR ELECTRONICS, POWER, INSTRUMENTATIONS AND CONTROL AND COMMUNICATIONS

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 150. WIRELESS TEMPERATURE SENSORS

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION SYSTEM

2013 CHAPTER IN BOOK CO-AUTHOR

# CONSULTATION

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## 1. 100 A NEUTRAL LINK TNBL/QA/BHG.1/PC/N/21/0480

TNB LABS SDN. BHD.

2023

NATIONAL

## 2. INSULATION PIERCING CONNECTORS FOR CONNECTION OF LOW VOLTAGE BARE CONDUCTOR TO AERIAL BUNDLE CABLE

TNBR

2023

NATIONAL

## 3. 100A NEUTRAL LINK

TNB LABS SDN BHD

2022

NATIONAL

# AWARDS/RECOGNITION

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## 1. ANUGERAH PENYELIDIK HARAPAN SAINS, TEKNOLOGI DAN PERUBATAN 2024

2025 UNIVERSITY

## 2. PENCAPAIAN LAPORAN NILAI PRESTASI TAHUNAN MELEBIHI 95% 2024

2025 UNIVERSITY

## 3. STAFF CONTOH 2024

2025 UNIVERSITY

## 4. ANUGERAH MYAKRAB TERBAIK 2024

2025 UNIVERSITY

## 5. ANUGERAH PENYELIDK TERBAIK FKAB 2025

2025 UNIVERSITY

## 6. EXTERNAL BOARD MEMBER (AHLI LEMBAGA LUAR)

MALAYSIAN SOCIETY FOR COMPUTED TOMOGRAPHY AND IMAGING TECHNOLOGY

2025 NATIONAL

## 7. RED-LASER TIME OF FLIGHT (TOF) WATER TURBIDITY MONITORING SYSTEM

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (ISIC VII 2025)

2025 ANTARABANGSA SILVER

## 8. PHOTOACOUSTIC BASED GOLD AUTHENTICATION SYSTEM FOR DETECTING TUNGSTEN INCLUSIONS: A COMSOL MULTIPHYSICS SIMULATION APPROACH

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (ISIC VII 2025)

2025 ANTARABANGSA BRONZE

## 9. CONCEPTUAL MODELLING OF GOLD AUTHENTICATION SYSTEM BASED ON ULTRASOUND PROPAGATION ANALYSIS

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

## 10. PHOTOACOUSTIC TOMOGRAPHY CONCEPT FOR EARLY DETECTION OF PREMOLAR CARIES

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

## 11. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR CCS PIPELINE INTEGRITY MONITORING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

## 12. AI-DRIVEN WELLNESS SCREENING SYSTEM FOR DENTAL CLINIC

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

## 13. EXOSKELETAL WRIST REHABILITATION SYSTEM

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

## 14. ANUGERAH PENYELIDIKAN TERBAIK USIM

2024 UNIVERSITY

# AWARDS/RECOGNITION

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## 15. ANUGERAH KREATIVITI DAN INOVASI USIM

2024 UNIVERSITY

## 16. MUSOLLI COMPANION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY BRONZE

## 17. CONCEPTUAL MODEL FOR A PORTABLE WRIST AND HAND REHABILITATION SYSTEM FOR STROKE PATIENTS

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY SILVER

## 18. STAFF CONTOH FEBRUARY 2023

2023 UNIVERSITY

## 19. MOST PROMISING AWARD (IPTA / IPTS / ILK / KV)

2023 NATIONAL

## 20. ANUGERAH KECEMERLANGAN DAN INOVASI TAHUN 2022

2023 UNIVERSITY

## 21. CONCEPTUAL MODELLING OF PORTABLE DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS

Research & Innovation Poster Competition (RIPC Series 1/2023)

2023 KEBANGSAAN GOLD

## 22. CONCEPTUAL MODELLING OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITY GOLD

## 23. CONCEPTUAL MODELLING FOR RECYCLING CO2 EMISSION WITH FLEXIBLE THIN FILM SOLAR

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITY BRONZE

## 24. ULTRASONIC TOMOGRAPHY TECHNIQUE FOR DETECTING FOREIGN OBJECTS BELOW 1 MILIMETRE IN MILK PACKAGING

Pertandingan Inovasi Halal Nasional 2023 (PIHAN'23)

2023 KEBANGSAAN GOLD

## 25. THE POTENTIAL OF .... TOMOGRAPHY (PAT) TECHNIQUE FOR DENTAL IMAGING..

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITY BRONZE

## 26. ANNAQLU

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022 ANTARABANGSA BRONZE

## 27. QUANTITATIVE GRADING INSPECTION SYSTEM FOR GEMSTONE (QGIS\_4G)

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022 ANTARABANGSA GOLD

## 28. PITCHING COMPETITION LAKIS@TECH 2021

2021 UNIVERSITY

# AWARDS/RECOGNITION

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## 29. STAF CONTOH BULANAN OGOS 2021

2021 UNIVERSITY

## 30. WATER TURBIDITY MONITORING SYSTEM USING ELECTRONICS AND OPTICAL SENSING

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI BRONZE

## 31. ANUGERAH E-PEMBELAJARAN USIM BAGI KATEGORI KURSUS AKTIF

2020 UNIVERSITY

## 32. ILLEGAL DUMPING DETECTION SYSTEM

INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (iidex2019)

2019 ANTARABANGSA BRONZE

## 33. PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS: PRACTICAL-ORIENTED TRAININGS FOR NEW RESEARCHERS (SEMINAR 1)

2018 INTERNATIONAL

## 34. STAF CONTOH OGOS 2018

2018 UNIVERSITY

## 35. DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS (SEMINAR 2)

2018 INTERNATIONAL

## 36. DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS

PROPOSAL WRITING COURSES FOR RESEARCH GRANTS DIES ProGRANT PROPOSAL WRITING FOR RESEARCH GRANTS S

2018 ANTARABANGSA GOLD

## 37. DAAD DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS

PROPOSAL WRITING COURSES FOR RESEARCH GRANTS (ProGRANT)

2018 ANTARABANGSA GOLD

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

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

2018 UNIVERSITI SILVER

## 39. SPEECH-BASED GENDER RECOGNITION

ISLAMIC INNOVATION STUDENT COMPETITION 2018 (IREKA'18)

2018 UNIVERSITI SILVER

## 40. 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

## 41. PERTANDINGAN IDEA KREATIF SEMPENA SAMBUTAN HARI KUALITI DAN INOVASI USIM TAHUN 2017

2017 UNIVERSITY