

Profile Image

## PROF. MADYA DR. AZNI HASLIZAN BINTI AB HALIM

PENSYARAH UNIVERSITI DS14

### CONTACT

**Phone:** 86369

**E-mail:**

ahazni@usim.edu.my

**Faculty:** Fakulti Sains  
Dan Teknologi

### SUPERVISION

PhD - Completed: 0, Ongoing: 4

Master - Completed: 4,  
Ongoing: 0

## AREAS OF EXPERTISE

Cryptography And Cryptanalysis (including Key Management And Random Number Generation)

Data Security Data And Digital Security And Privacy

Cybersecurity And Cyberwarfare Preparedness

## ACADEMIC QUALIFICATION

PhD in Computer Science (2014)

Master in Digital Communication (2002)

Bachelor in Sistem Teknologi Maklumat (1998)

## RESEARCH

### 1. KAJIAN PENILAIAN PRESTASI SISTEM MYGRANTS DAN CADANGAN PENAMBAHBAIKAN SISTEM

2024

GERAN KPT

ON GOING

CO-RESEARCHER

### 2. ENHANCING CRYPTOGRAPHIC RESILIENCE THROUGH SYMMETRIC ENCRYPTION ALGORITHM UTILIZING VARIABLE LENGTH CHROMOSOMES GENETIC ALGORITHM

2024

GERAN KPT

ON GOING

CO-RESEARCHER

### 3. HYBRID FUZZY LEAST SQUARES GENERATIVE ADVERSARIAL NETWORK (LS-GAN) BASED AUDIO STEGANOGRAPHY FOR BETTER IMPERCEPTIBILITY AND SECURITY REAL TIME PERFORMANCE.

2024

GERAN KPT

ON GOING

CO-RESEARCHER

### 4. CYBER HASANAT: SECURE CYBERCITIZENSHIP AWARENESS

2024

GERAN PENYELIDIKAN AGENSI KERAJAAN

COMPLETED

CO-

RESEARCHER

## 5. THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE SELF-LEARNING TOOL USING ARABIC CORPUS-BASED APPROACH

2024

GERAN PENYELIDIKAN PENTADBIR

ON GOING

CO-RESEARCHER

# RESEARCH

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## 6. CYBERSECURITY AND SYSTEMS (CSS)

2024 GERAN KUMPULAN PENYELIDIKAN (KUP) ON GOING CO-RESEARCHER

## 7. ENHANCING INTEROPERABILITY IN THE CERTIFICATE AUTHORITY: NEW TRUST MODEL FOR PUBLIC KEY INFRASTRUCTURE USING CRYPTO-AGILITY

2024 GERAN KPT ON GOING MAIN RESEARCHER

## 8. DEVELOPMENT OF AN ARABIC EXAM QUESTION GENERATOR UTILIZING ADVANCED NATURAL LANGUAGE PROCESSING TECHNIQUES WITH ARABIC CORPUS

2024 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

## 9. A MULTILAYER SECURE GEO-FENCING SURVEILLANCE FRAMEWORK FOR PUBLIC HEALTH CONTROL OF INFECTIOUS DISEASE MONITORING

2023 GERAN KPT ON GOING CO-RESEARCHER

## 10. A STUDY ON USER BEHAVIOUR PROFILING FOR ORGANIZATIONAL SECURITY RESILIENCE

2023 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

## 11. ENHANCING DISASTER PREPAREDNESS AND RESILIENCE THROUGH A MOBILE EDUTAINMENT BASED ON USER-CENTERED APPROACH

2023 GERAN PENYELIDIKAN PENTADBIR ON GOING CO-RESEARCHER

## 12. A STUDY ON MALAYSIAN DIGITAL SIGNATURE (DS) MARKET DEMAND AND FEASIBILITY OF CERTIFICATION AUTHORITY (CA) INTEROPERABILITY

2023 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

## 13. GAME-BASED LEARNING TOOL FOR CYBERSECURITY AWARENESS WITH NAQLI AND AQLI INTEGRATION

2022 BIDUNI MIZANNIYAH COMPLETED CO-RESEARCHER

## 14. BALANCED COVER AUDIO SUGGESTION FOR AUDIO STEGANOGRAPHY ALGORITHM BASED ON NSGA-II, SEGMENTATION AND CHAOTIC MAP

2020 GERAN KPT COMPLETED CO-RESEARCHER

## 15. KIPLE FRAUD MANAGEMENT SYSTEM

2019 PROJEK REVOLUSI INDUSTRI 4.0 COMPLETED CO-RESEARCHER

## 16. LIGHTWEIGHT CRYPTOSYSTEM BY ADOPTING THE 3D FEATURE

2019 GERAN KPT COMPLETED MAIN RESEARCHER

## 17. DYNAMIC S-BOX USING AFFINE TRANSFORMATION TO INCREASE THE SECURITY OF ENCRYPTION

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 18. EVOLUTIONARY MULTI-OBJECTIVE OPTIMIZATION FOR COVER AUDIO SELECTION IN AUDIO STEGANOGRAPHY

2017 GERAN KPT COMPLETED CO-RESEARCHER

## 19. A NEW CRYPTOGRAPHY ALGORITHM DERIVED FROM QURANIC MAQAMAT FOR PREVENTING ACCOUSTIC ATTACKS.

2016 GERAN KPT COMPLETED CO-RESEARCHER

## 20. A NEW INTEGRATED POSTGRADUATE STUDENT SYSTEMS DEVELOPMENT

2015 GERAN PENYELIDIKAN KHAS COMPLETED CO-RESEARCHER

## 21. AN ENHANCEMENT OF CORRELATED CLUSTERING APPROACH FOR IMPROVING WIRELESS ADHOC NETWORK PERFORMANCE.

2014 GERAN KPT COMPLETED MAIN RESEARCHER

# RESEARCH

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## 22. COMPARISON STUDY BETWEEN EXPECTATION & EXPERIENCE OF ICT PROVISION IN UNIVERSITY

2009

GERAN PENYELIDIKAN PANTAS BAWAH SETAHUN

COMPLETED

CO-RESEARCHER

# PUBLICATION

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## 1. A COMPARATIVE ANALYSIS OF KEY MANAGEMENT IN PKI INTEROPERABILITY USING SYSTEMATIC LITERATURE REVIEW

SCIENCE TECHNOLOGY GRADUATES COLLOQUIUM (KOSIST 2024)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 2. ARABIC EXAM QUESTION GENERATION: AN NLP AND CORPUS-DRIVEN APPROACH

INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND SUSTAINABILITY (ICETS)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 3. DIGITAL CERTIFICATE-BASED AUTHENTICATION MODEL FOR ENHANCED SMARTPHONE SECURITY

SYMPOSIUM ON COMPUTER SCIENCE AND MATHEMATICS (SCOMATICS 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 4. CRYPTOLEARN: AI-DRIVEN ADAPTIVE CRYPTOGRAPHY LEARNING

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE (SAIS 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 5. DESIGN AND IMPLEMENTATION OF A GENETIC ALGORITHM-BASED BLOCK CIPHER FOR ENHANCED CRYPTOGRAPHIC SECURITY

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS) 2024

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 6. BIG DATA-DRIVEN INFORMATION SECURITY BEHAVIOURAL PROFILING FOR ORGANISATIONAL RESILIENCE

THE INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND SUSTAINABILITY (ICETS 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 7. INTEROPERABILITY CHALLENGES AMONG CERTIFICATION AUTHORITIES IN MALAYSIA: AN IN-DEPTH ANALYSIS

INTERNATIONAL CONFERENCE ON CYBER SECURITY, PRIVACY IN COMMUNICATION NETWORKS

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 8. ASSESSING FEATURES FOR MALAYSIAN UNIVERSITIES EXPERT DIRECTORY

2ND INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND SUSTAINABILITY

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 9. GLOBALIZING CYBER HASANAT: CULTIVATING DIGITAL LITERACY AND ETHICAL RESPONSIBILITY FOR THE RESILIENCE COMMUNITY

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE (SAIS 2024) - 7TH EDITION

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 10. DISASTERPREP: DISASTER PREPAREDNESS AND RESILIENCE THROUGH A MOBILE EDUTAINMENT

INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND SUSTAINABILITY (ICETS)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 11. SWINDLERT: DEVELOPMENT OF AUGMENTED REALITY GAME-BASED INTERACTIVITY FOR ENHANCING CYBERCRIME AWARENESS

INTERNATIONAL SYMPOSIUM ON COMPUTER SCIENCES AND MATHEMATICS 2024 (I-SCOMATICS)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 12. IMPROVING DYNAMIC SECURITY OF THE LEAST SIGNIFICANT BIT USING BLOCK-BASED CHAOTIC MULTI-LEVEL LSB (BCM-LSB)

THE 9TH INTERNATIONAL CONFERENCE ON CYBER SECURITY, PRIVACY IN COMMUNICATION NETWORKS (ICCS 2023)

2024 PROCEEDING SCOPUS CORRESPONDING AUTHOR

## 13. SYSTEMATIC LITERATURE REVIEW: TREND ANALYSIS ON THE DESIGN OF SECURE LIGHTWEIGHT BLOCK CIPHER

JOURNAL OF KING SAUD UNIVERSITY - COMPUTER AND INFORMATION SCIENCES

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

# PUBLICATION

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## 14. CERTIFICATE AUTHORITY CAPACITY AND DIGITAL SIGNATURE MARKET DEMAND IN PROMOTING INTEROPERABILITY IN MALAYSIA.

1ST INTERNATIONAL CONFERENCE ON ADVANCES IN MACHINE INTELLIGENCE, AND CYBERSECURITY TECHNOLOGIES (AMICT2023)

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 15. A METHOD OF COVER AUDIO SELECTION FOR EMBEDDING BASED ON VARIOUS CRITERIA

1ST INTERNATIONAL CONFERENCE ON ADVANCES IN MACHINE INTELLIGENCE, AND CYBERSECURITY TECHNOLOGIES (AMICT2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 16. SECURE CYBERCITIZENSHIP (SET): A GAMIFICATION LEARNING TOOL FOR CYBERSECURITY AWARENESS

ACADEMIA PRESS SOLUTIONS (APS) PROCEEDINGS VOLUME 6

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 17. SYSTEMATIC LITERATURE REVIEW FOR LIGHTWEIGHT AUTHENTICATION ALGORITHM IN THE IOT

JOURNAL OF SUSTAINABILITY SCIENCE AND MANAGEMENT

2022 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 18. LAO-3D: A SYMMETRIC LIGHTWEIGHT BLOCK CIPHER BASED ON 3D PERMUTATION FOR MOBILE ENCRYPTION APPLICATION

SYMMETRY

2022 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 19. ANALYSIS OF PERMUTATION FUNCTIONS FOR LIGHTWEIGHT BLOCK CIPHER DESIGN

8TH INTERNATIONAL CRYPTOLOGY AND INFORMATION SECURITY CONFERENCE 2022 (CRYPTOLOGY2022)

2022 PROCEEDING SCOPUS CORRESPONDING AUTHOR

## 20. 3D DESIGN FOR LIGHTWEIGHT S-BOX

2022 INTERNATIONAL CONFERENCE ON INNOVATIONS IN SCIENCE, ENGINEERING AND TECHNOLOGY (ICISSET)

2022 PROCEEDING SCOPUS CORRESPONDING AUTHOR

## 21. STATISTICAL ANALYSIS OF 3D RECTANGLE ENCRYPTION ALGORITHM

RESEARCH WORLD INTERNATIONAL CONFERENCE

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 22. SYSTEMATIC LITERATURE REVIEW ON CURRENT IMPLEMENTATION OF ADVANCED ENCRYPTION STANDARD (AES) S-BOX

QURANIC ACOUSTIC-AN ANALYSIS FOR CRYPTOGRAPHIC APPLICATION

2022 CHAPTER IN BOOK MAIN AUTHOR

## 23. FAULT CRYPTANALYSIS ON ADVANCED ENCRYPTION STANDARD

QURANIC ACOUSTIC-AN ANALYSIS FOR CRYPTOGRAPHIC APPLICATION

2022 CHAPTER IN BOOK CO-AUTHOR

## 24. A SYSTEMATIC LITERATURE REVIEW ON LIGHTWEIGHT SECURED S-BOX DESIGN FOR MHEALTH APPLICATIONS

SELANGOR SCIENCE & TECHNOLOGY REVIEW (SESTER)

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 25. SECURITY ANALYSIS BETWEEN STATIC AND DYNAMIC SBOXES IN BLOCK CIPHERS

JOURNAL OF INFORMATION SYSTEM AND TECHNOLOGY MANAGEMENT (JISTM)

2021 JOURNAL MYCITE CO-AUTHOR

## 26. LIGHTWEIGHT DENIAL OF SERVICE (DOS) DETECTION SYSTEM ALGORITHM (LIDSA)

2021 23RD INTERNATIONAL CONFERENCE ON ADVANCED COMMUNICATION TECHNOLOGY (ICACT)

2021 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 27. RANDOMNESS TESTS ON NINE DATA CATEGORIES OF RECTANGLE USING NIST STATISTICAL TEST SUITE

INTERNATIONAL JOURNAL OF CRYPTOLOGY RESEARCH

2020 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 28. KNOWLEDGE IMPACT ON INFORMATION QUALITY, SERVICE QUALITY AND SYSTEM QUALITY FOR SECURITY OF 1GOVUC

OIC-CERT JOURNAL OF CYBER SECURITY

2020 JOURNAL OTHER DATABASE MAIN AUTHOR

## 29. DIGITAL AUDIO STEGANOGRAPHY: SYSTEMATIC REVIEW, CLASSIFICATION, AND ANALYSIS OF THE CURRENT STATE OF THE ART

COMPUTER SCIENCE REVIEW

2020 JOURNAL SCOPUS CO-AUTHOR

## 30. EXTENDED RECTANGLE ALGORITHM USING 3D BIT ROTATION TO PROPOSE A NEW LIGHTWEIGHT BLOCK CIPHER FOR IOT

IEEE ACCESS

2020 JOURNAL ISI MAIN AUTHOR

## 31. THE PROGRESSIVE MULTILEVEL EMBEDDING METHOD FOR AUDIO STEGANOGRAPHY

JOURNAL OF PHYSICS.: CONFERENCE SERIES

2020 JOURNAL SCOPUS CO-AUTHOR

## 32. RANDOMNESS ANALYSIS ON RECTANGLE BLOCK CIPHER

7TH INTERNATIONAL CRYPTOLOGY AND INFORMATION SECURITY CONFERENCE 2020 (CRYPTOLOGY2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 33. MODIFICATIONS OF KEY SCHEDULE ALGORITHM ON RECTANGLE BLOCK CIPHER

2ND INTERNATIONAL CONFERENCE ON ADVANCES IN CYBER SECURITY (ACES 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 34. ON SELECTED ISSUES OF BOOLEAN FUNCTION APPLICATION IN SYMMETRIC KEY CRYPTOGRAPHY AGAINST SIDE CHANNEL ATTACKS

JOURNAL OF PHYSICS: CONFERENCE SERIES

2019 JOURNAL SCOPUS CO-AUTHOR

## 35. FORMULATION OF 3D EUCLIDEAN DISTANCE FOR NETWORK CLUSTERING IN WIRELESS SENSOR NETWORK

INTERNATIONAL JOURNAL OF ADVANCED COMPUTER TECHNOLOGY

2019 JOURNAL SCOPUS CO-AUTHOR

## 36. LINEAR HYBRID CELLULAR AUTOMATA (LHCA) RULE 90/150 BASED S-BOX

INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING

2019 JOURNAL SCOPUS CO-AUTHOR

## 37. ISSUES IN LIGHTWEIGHT ENCRYPTION ALGORITHM FOR MHEALTH

INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING OPEN ACCESS

2019 JOURNAL SCOPUS CO-AUTHOR

## 38. THE ADAPTIVE MULTI-LEVEL PHASE CODING METHOD IN AUDIO STEGANOGRAPHY

IEEE ACCESS

2019 JOURNAL SCOPUS CO-AUTHOR

## 39. LIGHTWEIGHT CRYPTOGRAPHY TECHNIQUES FOR MHEALTH CYBERSECURITY

2019 ASIA PACIFIC INFORMATION TECHNOLOGY CONFERENCE

2019 PROCEEDING NON-INDEX MAIN AUTHOR

# PUBLICATION

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## 40. VISUAL PERCEPTION GAMES FOR AUTISTIC LEARNERS: DESIGN & DEVELOPMENT

2019 ASIA PACIFIC INFORMATION TECHNOLOGY CONFERENCE

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 41. VISUAL PERCEPTION GAMES FOR AUTISTIC LEARNERS: RESEARCH FINDINGS

PROCEEDINGS OF THE 2019 ASIA PACIFIC INFORMATION TECHNOLOGY CONFERENCE

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 42. SPAM AND ETHICS OF SPAMMING FROM AND AN ISLAMIC PERSPECTIVES

THE INTEGRATION OF NAQLI AND AQLI IN INFORMATION SECURITY ASSURANCE FROM THE ISLAMIC AND TECHNOLOGICAL PERSPECTIVES

2019 CHAPTER IN BOOK CO-AUTHOR

## 43. INITIATING AN ONLINE REPUTATION MONITORING SYSTEM WITH OPEN SOURCE ANALYTICS TOOLS

JOURNAL OF PHYSICS: CONFERENCE SERIES

2018 JOURNAL SCOPUS CO-AUTHOR

## 44. DENIAL OF SERVICE:(DOS) IMPACT ON SENSORS

2018 4TH INTERNATIONAL CONFERENCE ON INFORMATION MANAGEMENT (ICIM)

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 45. CURRENT IMPLEMENTATION OF ADVANCE ENCRYPTION STANDARD (AES) S-BOX

JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2017 JOURNAL SCOPUS CO-AUTHOR

## 46. EXPERIMENTAL RESEARCH TESTBED FOR INTERNET OF THINGS: A SURVEY FROM SECURITY SERVICES PERSPECTIVES

JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2017 JOURNAL SCOPUS MAIN AUTHOR

## 47. FORMULATION OF FUZZY CORRELATED SYSTEM FOR NODE BEHAVIOR DETECTION IN WSN

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING (JTEC)

2017 JOURNAL SCOPUS MAIN AUTHOR

## 48. SYSTEMATIC LITERATURE REVIEW: CORRELATED FUZZY LOGIC RULES FOR NODE BEHAVIOR DETECTION IN WIRELESS SENSOR NETWORK

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING (JTEC)

2017 JOURNAL SCOPUS MAIN AUTHOR

## 49. MEASURING SENSOR TO CLOUD ENERGY CONSUMPTION

SECOND INTERNATIONAL CONFERENCE ON INTERNET OF THINGS AND CLOUD COMPUTING

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 50. EXTRACTING SOFTWARE FEATURES FROM ONLINE REVIEWS TO DEMONSTRATE REQUIREMENTS REUSE IN SOFTWARE ENGINEERING

INTERNATIONAL CONFERENCE ON COMPUTING & INFORMATICS

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 51. SIX CRITICAL PROCESSES TO REFUTE SOCIAL-MEDIA-RUMORS

ADVANCED SCIENCE LETTERS

2016 JOURNAL WOS CO-AUTHOR

## 52. A HYBRID SOLUTION FOR ENCRYPTED COMMUNICATION USING AUDIO STEGANOGRAPHY.

ADVANCED SCIENCE LETTERS

2016 JOURNAL WOS CO-AUTHOR

# PUBLICATION

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## 53. CLASSIFICATION FOR QURAN AUTHENTICATION USING CHARACTERS AND DIACRITICS HASHED VALUES

ADVANCED SCIENCE LETTERS

2016 JOURNAL WOS CO-AUTHOR

## 54. EXPERIMENTAL RESEARCH TESTBED FOR INTERNET OF THINGS: A SURVEY FROM SECURITY SERVICES PERSPECTIVES

3RD INTERNATIONAL CONFERENCE ON DEFENCE AND SECURITY TECHNOLOGY (DSTC2016)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 55. CLUSTERING ALGORITHM TO IMPROVE NETWORK CONNECTIVITY IN WSNS FOR CORRELATED NODES BEHAVIOUR: A SYSTEMATIC REVIEW

KOSIST 16

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 56. SYSTEMATIC REVIEW FOR NETWORK SURVIVABILITY ANALYSIS IN MANETS

PROCEDIA-SOCIAL AND BEHAVIORAL SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

## 57. CONCEPTUAL STUDY TOWARDS INFORMATION SECURITY MODEL FOR E-LEARNING STAKEHOLDERS

ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES

2015 JOURNAL SCOPUS CO-AUTHOR

## 58. 2-TIER SECURITY CONTROL MODEL FOR BRING YOUR OWN DEVICE IN USIM

KOLOKIUW SISWAZAH FST 15 (KOSIST 15)

2015 PROCEEDING NON-INDEX EDITOR

## 59. AN ENHANCED PACKET SANITIZATION FOR INFORMATION HIDING IN TCP/IP

KOLOKIUW SISWAZAH FST 15 (KOSIST""15)

2015 PROCEEDING NON-INDEX EDITOR

## 60. A COMPARATIVE STUDY BETWEEN PMI CODE OF ETHICS AND ISLAMIC ETHICS

KOLOKIUW SISWAZAH FST 15 (KOSIST""15)

2015 PROCEEDING NON-INDEX EDITOR

## 61. CORRELATED TOPOLOGY CONTROL ALGORITHM FOR SURVIVAL NETWORK IN MANETS

ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY

2015 CHAPTER IN BOOK MAIN AUTHOR

## 62. NETWORK SURVIVABILITY ANALYSIS MODELING APPROACH FOR MANETS : A SYSTEMATIC REVIEW

THE 4TH WORLD CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGIES (WICT 14)

2014 PROCEEDING NON-INDEX MAIN AUTHOR

## 63. MULTIVARIATE SURVIVAL ANALYSIS FOR CORRELATED NODE BEHAVIOR IN MANETS

2014 INTERNATIONAL CONFERENCE ON INFORMATION SCIENCE AND APPLICATIONS (ICISA)

2014 PROCEEDING NON-INDEX MAIN AUTHOR

## 64. CORRELATED NODE BEHAVIOR MODELING IN MANETS

SEMINAR MATEMATIK DALAM INDUSTRI

2014 PROCEEDING NON-INDEX MAIN AUTHOR

## 65. SURVIVABILITY MODELING AND ANALYSIS OF MOBILE AD HOC NETWORK WITH CORRELATED NODE BEHAVIOR

PROCEDIA ENGINEERING

2013 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

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## 66. MERGING OF EPIDEMIC SIR MODEL AND SEMI MARKOV FOR CORRELATED NODE BEHAVIOR IN MANETS

INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS AND COMPUTATIONAL METHODS

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 67. CORRELATED NODE BEHAVIOR MODEL BASED ON SEMI MARKOV PROCESS FOR MANETS

INTERNATIONAL JOURNAL OF COMPUTER SCIENCE ISSUES (IJCSI)

2012 JOURNAL SCOPUS MAIN AUTHOR

## 68. CORRELATED NODE BEHAVIOR MODELING APPROACH FOR EVALUATING SURVIVABILITY IN AD HOC NETWORKS

PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON CRYPTOLOGY & COMPUTER SECURITY 2012 (CRYPTOLOGY2012)

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## 69. CORRELATED NODE BEHAVIOR IN WIRELESS AD HOC NETWORKS: AN EPIDEMIC MODEL

IEEE THE 7TH INTERNATIONAL CONFERENCE FOR INTERNET TECHNOLOGY AND SECURED TRANSACTIONS (ICITST-2012)

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## 70. A 3-D MARKOV CHAIN CORRELATED ALGORITHM FOR MANETS

IEEE INTERNATIONAL CONFERENCE ON COMPUTER AND INFORMATION SCIENCE, ICCIS2012

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## 71. RESILIENCE AND SURVIVABILITY IN MANETS: DISCIPLINE, ISSUES AND CHALLENGES

3RD INTERNATIONAL CONFERENCE ON COMPUTING AND INFORMATICS, ICOCI 2011

2011 PROCEEDING NON-INDEX MAIN AUTHOR

## 72. FACTORS INFLUENCING KNOWLEDGE SHARING IN HIGHER LEARNING

INTERNATIONAL SYMPOSIUM ON INFORMATION TECHNOLOGY 2010

2010 PROCEEDING NON-INDEX MAIN AUTHOR

## 73. PERFORMANCE ANALYSIS OF ROUTING PROTOCOL IN WSN

INTERNATIONAL JOURNAL OF ELECTRICAL AND ELECTRONIC

2009 JOURNAL WOS MAIN AUTHOR

## 74. ANALYSIS OF PACKET ABNORMALITIES IN WIRELESS SENSOR NETWORK

5TH INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY AND SYSTEMS (ICTS)

2009 PROCEEDING NON-INDEX MAIN AUTHOR

## 75. MEASURING SECURITY AWARENESS IN ORGANISATION : USIM CASE STUDY

INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING & COMPUTER SYSTEMS

2009 PROCEEDING NON-INDEX MAIN AUTHOR

## 76. SENSASIM - TOPNODE:AN IMPROVED WIRELESS SENSOR NETWORK SIMULATOR

5TH INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY AND SYSTEMS (ICTS),

2009 PROCEEDING NON-INDEX CO-AUTHOR

## 77. OVERVIEW OF STAKCERT FRAMEWORK IN CONFRONTING WORMS ATTACK

2ND IEEE INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, 2009.(ICCSIT 2009)

2009 PROCEEDING NON-INDEX CO-AUTHOR

## 78. AN OVERVIEW OF STAKCERT FRAMEWORK IN CONFRONTING WORMS ATTACK

2ND IEEE INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, 2009. ICCSIT 2009.

2009 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

---

## 79. INFORMATION AND COMMUNICATION TECHNOLOGY LAB MANUAL

2009 BOOK CO-AUTHOR

## 80. MAC PROTOCOL TO REDUCE PACKET COLLISION IN WIRELESS SENSOR NETWORK

INTERNATIONAL CONFERENCE ON COMPUTER AND COMMUNICATION ENGINEERING (ICCCCE 2008),

2008 PROCEEDING NON-INDEX MAIN AUTHOR

## 81. AN EFFICIENT NETWORK SECURITY SYSTEM THROUGH ONTOLOGY APPROACH

5TH INTERNATIONAL CONFERENCE ON INNOVATION IN IT (INNOVATION 08)

2008 PROCEEDING NON-INDEX MAIN AUTHOR

## 82. BLUETOOTH MOBILE ADVERTISING SYSTEM USING PULL-BASED APPROACH

3RD INTERNATIONAL SYMPOSIUM ON INFORMATION TECHNOLOGY, IEEE,

2008 PROCEEDING NON-INDEX MAIN AUTHOR

## 83. THREATS IN WIRELESS SENSORS NETWORK: AN OVERVIEW

4TH MALAYSIAN SOFTWARE ENGINEERING CONFERENCE

2008 PROCEEDING NON-INDEX MAIN AUTHOR

## 84. USER AUTHENTICATION IN BLUETOOTH DEVICES

2ND INTERNATIONAL CONFERENCE ON INFORMATICS (INFORMATICS 07),

2007 PROCEEDING NON-INDEX MAIN AUTHOR

## 85. USER AUTHENTICATION IN MOBILE FINANCE APPLICATION (MFS) IN BLUETOOTH TECHNOLOGY USING SSL

PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON E-COMMERCE 2005

2005 PROCEEDING NON-INDEX MAIN AUTHOR

## 86. INTEGRATING WORDNET TO ENHANCE PLAGIARISM DETECTION SYSTEM

PROCEEDING OF THE 3RD INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND MULTIMEDIA 2005

2005 PROCEEDING NON-INDEX MAIN AUTHOR

## 87. PLAGIARISM DETECTING SYSTEM WITHIN DOCUMENT COLLECTION FOR TEACHING AND LEARNING

PROCEEDINGS OF THE 7TH INTERNATIONAL CONFERENCE ON WORK WITH COMPUTING SYSTEMS 2004 (WWCS2004)

2004 PROCEEDING NON-INDEX MAIN AUTHOR

## 88. MEASURING SECURITY AWARENESS IN ORGANIZATION: USIM CASE STUDY

INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING AND COMPUTER SYSTEM

1900 PROCEEDING NON-INDEX CO-AUTHOR

# CONSULTATION

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## 1. PANEL PAKAR PENILAI KRIPTOGRAFI SEDIA ADA (AKSA) - MYSEAL 2023

CYBERSECURITY MALAYSIA

2023 NATIONAL

## 2. MEMBANGUNKAN KERJA-KERJA PENGATURCARAAN SISTEM BAGI PIHAK KIPLEYPAY SDN BHD

KIPLEYPAY SDN BHD

2019 NATIONAL

## 3. PANEL PENILAI UITM BAGI PROGRAM DEEMED ACCREDITED PROGRAM BACHELOR OF INFORMATION TECHNOLOGY, BACHELOR OF INFORMATION TECHNOLOGY (HONS) INTELLIGENT SYSTEM ENGINEERING, BACHELOR OF COMPUTER SCIENCE UITM,

UITM

2018 UNIVERSITY

## 4. DEVELOPMENT OF THE CONCEPTUAL FRAMEWORK PRELIMINARY DESIGN OF MOBILE INTERNET OF THINGS (IOT) SECURITY TEST LAB.

CYBERSECURITY

2015 NATIONAL

## 5. DEVELOPMENT OF INTERGRATED SYSTEM FOR RPM FOR INDKOM

INDKOM SDN BHD.

2015 NATIONAL

## 6. PANEL PAKAR PENILAI AKSA MYSEAL 2.0

Cybersecurity Malaysia Sdn Bhd

National

# AWARDS/RECOGNITION

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## 1. MODERATOR RESEARCH SEMINAR

RESEARCH SEMINAR UNIVERSITI SAINS ISLAM MALAYSIA

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

## 2. 3D LIGHTWEIGHT CRYPTOSYSTEM DESIGN FOR IOT APPLICATIONS BASED ON COPOSITE S-BOX

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA SILVER

## 3. DISASTERPREP SCENARIO SIMULATIONS: RAPID DECISION-MAKING FOR READINESS

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

## 4. SCIENCE MAPPING OF INFORMATION SECURITY BEHAVIOUR FOR ORGANISATIONAL RESILIENCE

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

## 5. SWINDLERT: DEVELOPMENT OF AUGMENTED REALITY GAME-BASED INTERACTIVITY FOR ENHANCING CYBERCRIME AWARENESS

International Symposium on Computer Sciences and Mathematics (i-SCOMATICS) 2024

2024 ANTARABANGSA BEST PAPER AWARD

## 6. DISASTERPREP: GAMIFIED MOBILE EDUTAINMENT FOR FUTURE DISASTER PREPAREDNESS AND RESILIENCE

International Teaching Enhancement & Learning Innovation Carnival 2024

2024 ANTARABANGSA BRONZE

## 7. SWINDLERT: DEVELOPMENT OF AUGMENTED REALITY GAME-BASED INTERACTIVITY FOR ENHANCING CYBERCRIME AWARENESS

International Symposium on Computer Sciences and Mathematics (i-SCOMATICS) 2024

2024 ANTARABANGSA CERTIFICATE OF APPRECIATION

## 8. ANUGERAH PENERBITAN JOURNAL Q1

Majlis Anugerah Kecemerlangan & Penghargaan Fakulti Sains & Teknologi Tahun 2023

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

## 9. ANUGERAH PEMFAILAN HARTA INTELEK

Majlis Anugerah Kecemerlangan & Penghargaan Fakulti Sains & Teknologi Tahun 2023

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

## 10. ANUGERAH PENERBITAN JURNAL BERINDEKS WOS/SCOPUS/MYCITE

Majlis Anugerah Kecemerlangan & Penghargaan Fakulti Sains & Teknologi Tahun 2023

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

## 11. ANUGERAH PENERIMA GERAN PENYELIDIKAN

Majlis Anugerah Kecemerlangan & Penghargaan Fakulti Sains & Teknologi Tahun 2023

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

## 12. EPISY: PREDICTIVE SURVEILLANCE FOR EPIDEMIC CONTROL

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI GOLD

## 13. AL-ASILAH : ARABIC EXAM QUESTION GENERATOR

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI SILVER

#### 14. BEST PRESENTER AWARD

2023

UNIVERSITY

# AWARDS/RECOGNITION

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## 15. BEST PRESENTER IN FINAL YEAR PROJECT

2023 UNIVERSITY

## 16. STAFF CONTOH BULANAN FST (APRIL 2023)

2023 OTHERS

## 17. ACADEMIC ADVISOR

UNIVERSITI MALAYSIA SARAWAK (UNIMAS)

2023 UNIVERSITY

## 18. ACADEMIC ADVISOR

UNIVERSITI MALAYSIA SARAWAK

2023 UNIVERSITY

## 19. A NEW DNA-INSPIRED SYMMETRIC ENCRYPTION ALGORITHM

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITI BRONZE

## 20. A METHOD OF COVER AUDIO SELECTION FOR EMBEDDING BASED ON VARIOUS CRITERIA

International Conference on Advances in Machine Intelligence and Cybersecurity Technologies (AMICT)

2023 ANTARABANGSA BEST PAPER AWARD

## 21. SAKTI: SECURE CHAT-BOX

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

2023 UNIVERSITI GOLD

## 22. TIDAK DINYATAKAN

International Conference on Advances in Machine Intelligence and Cybersecurity Technologies (AMICT)

2023 ANTARABANGSA BEST PAPER AWARD

## 23. SECURE CYBERCITIZENSHIP (SET)

Malaysia Technology Expo (MTE) 2023

2023 ANTARABANGSA GOLD

## 24. SWINDLERT

Malaysia Technology Expo (MTE) 2023

2023 ANTARABANGSA BRONZE

## 25. SAKTI-CHATBOX

Malaysia Technology Expo (MTE) 2023

2023 ANTARABANGSA SILVER

## 26. SWINDLERT: MOBILE GAMIFICATION USING AUGMENTED REALITY FOR CYBERCRIME EDUTAINMENT

The International E-Content Development Competition 2023 (eCONDEV 2023)

2023 ANTARABANGSA GOLD

## 27. SECURE CYBERCITIZENSHIP (SET)

VIRTUAL INNOVATION CEMPETITION 2023

2023 KEBANGSAAN SILVER

## 28. SWINDLERT: MOBILE GAMIFICATION USING AUGMENTED REALITY FOR CYBERCRIME EDUTAINMENT

International University Carnival On E-Learning (IUCEL 2023)

2023 ANTARABANGSA SILVER

# AWARDS/RECOGNITION

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## 29. CYBER HASANAT: RESILIENT COMMUNITY VIA SECURE CYBERCITIZENSHIP BOARD GAME

Pertandingan Inovasi Pengajaran dan Pembelajaran (kNovasi) 2023

2023 KEBANGSAAN BRONZE

## 30. ANUGERAH PERKHIDMATAN CEMERLANG

2022 UNIVERSITY

## 31. ANUGERAH PERKHIDMATAN SETIA

2022 UNIVERSITY

## 32. SAKTI: SECURE APP FOR ENCRYPTING TEXT INFORMATION

Defence, Security and Sustainability Exhibition 2022 (DSS) National Defence University of Malaysia

2022 KEBANGSAAN GOLD

## 33. DEVELOPMENT OF SECURE LIGHTWEIGHT BLOCK CIPHER BASED ON 3D ROTATION METHOD FOR DATA PROTECTION ON MOBILE APPLICATION

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI GOLD

## 34. COVER-SELECTION-BASED AUDIO STEGANOGRAPHY (CAS) BASED ON LEAST SIGNIFICANT BIT (LSB) FOR BALANCED PERFORMANCE

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI GOLD

## 35. SAKTI: SECURE APP FOR ENCRYPTING TEXT INFORMATION

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI GOLD

## 36. CYBERPOLY: CYBERSECURITY EDUGAME

Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA22)

2022 ANTARABANGSA GOLD

## 37. SAKTI: SECURE APP FOR ENCRYPTING TEXT INFORMATION

Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA22)

2022 ANTARABANGSA GOLD

## 38. CYBERPOLY: CYBERSECURITY EDUGAME

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI SILVER

## 39. SAKTI

33RD INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA (ITEX'22)

2022 ANTARABANGSA SILVER

## 40. CYBERPOLY: MOBILE GAMIFICATION FOR SECURITY AWARENESS CAMPAIGN

MALAYSIA TECHNOLOGY EXPO 2022

2022 ANTARABANGSA BRONZE

## 41. SILVER AWARDS- THE VIRTUAL INTERNATIONAL E-CONTENT DEVELOPMENT COMPETITION 2021 (ECONDEV21)

2021 INTERNATIONAL

## 42. CYBERLAW ALMANAC

THE VIRTUAL INTERNATIONAL E-CONTENT DEVELOPMENT COMPETITION 2021 (ECONDEV)

2021 ANTARABANGSA SILVER

# AWARDS/RECOGNITION

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## 43. ACADEMIC ADVISOR

SEGI COLLEGE SUBANG JAYA

2020 UNIVERSITY

## 44. DASHBOARD MONITORING SYSTEM (DMS) FOR POSTGRADUATE STUDY

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) 2019

2019 ANTARABANGSA BRONZE

## 45. BLUETOOTH SMART BASED ATTENDANCE SYSTEM FOR TEACHING AND LEARNING

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) 2019

2019 ANTARABANGSA BRONZE

## 46. MOBAS: MOBILE BARCODE SCANNER BASED ATTENDANCE SYSTEM FOR EDUCATION 4.0

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) 2019

2019 ANTARABANGSA BRONZE

## 47. USIM TOP 100 RESEARCHERS

2018 UNIVERSITY

## 48. TOP 100 RESEARCHERS USIM ( 2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

## 49. BEST PAPER AWARD

2017 UNIVERSITY

## 50. IUCEL - GOLD MEDAL AWARD

2017 UNIVERSITY

## 51. SUPPORTING ELEARNING THROUGH CENTRALIZED INTEGRATED PORTAL POSTGRADUATE SYSTEM (IPPS)

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) 2017

2017 ANTARABANGSA GOLD

## 52. SUPPORTING ELEARNING THROUGH CENTRALIZED INTEGRATED PORTAL POSTGRADUATE SYSTEM (IPPS)

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) 2017

2017 UNIVERSITI GOLD

## 53. ANUGERAH PERKHIDMATAN CEMERLANG

2016 UNIVERSITY

## 54. BEST PAPER AWARD

2016 UNIVERSITY

## 55. INOVA SILVER AWARD FOR UNDERGRADE ICT CATEGORY

2016 UNIVERSITY

## 56. Q-CHECKED

EKSPO INOVASI ISLAM 1438H (i-INOVA16)

2016 UNIVERSITI SILVER