PROF. TS. DR. MADIHAH BINTI MOHD SAUDI

PENSYARAH UNIVERSITI GRED KHAS C

CONTACT

Phone: 067986418
E-mail: madihah@usim.edu.my
Faculty: Fakulti Sains Dan Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 3
Master - Completed: 5, Ongoing: 0

AREAS OF EXPERTISE

Software Engineering
Other Artificial Intelligence
Other Information, Computer And Communication Technology Not Elsewhere Classified
Computer Security

ACADEMIC QUALIFICATION

PhD in Komputer (2011)
Master in Kejuruteraan Perisian (2006)
Bachelor in Sains Komputer (2001)

RESEARCH

1. KAJIAN PEMBANGUNAN PELAN TINDAKAN MENANGANI ANCAMAN JENAYAH SIBER NEGARA

2025 | GERAN PENYELIDIKAN AGENSI KERAJAAN | ON GOING | MAIN RESEARCHER

2. A RESILIENT MODEL FOR MITIGATING MALWARE ATTACKS USING PHYLOGENETICS VIA MINIMUM DESCRIPTION LENGTH (MDL) AND ENHANCED DEEP LEARNING (EDL) FOR CYBER-PHYSICAL SYSTEMS (CPS)

2024 | GERAN KPT | ON GOING | MAIN RESEARCHER

3. DEVELOPING CYBER SECURITY PROFESIONAL MODULES: TOWARDS DIGITAL RESILIENCE.

2024 | GERAN PENYELIDIKAN INDUSTRI | ON GOING | MAIN RESEARCHER

4. MACHINE CONTROL SYSTEM MODELING FOR COMPRESSED NATURAL GAS USING FUZZY LOGIC

2022 | GERAN SEPADAN ANTARABANGSA | ON GOING | MAIN RESEARCHER

5. RESEARCH AND DEVELOPMENT INTEGRATED LAKE BASIN MANAGEMENT PLAN (ILBMP) FOR THE EMPANGAN TIMAH TASOH, PERLIS & TASIK MELATI, PERLIS

2020 | GERAN PENYELIDIKAN AGENSI KERAJAAN | COMPLETED | MAIN RESEARCHER

RESEARCH

6. INTELLIGENT MOBOTDER MODEL FOR SECURING USERS AGAINST COVID-19 CYBERCRIME ATTACKS

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED MAIN RESEARCHER

7. EZCYBERCRIME DETECTION AND RESPONSE MOBILE APPS PROTOTYPE FOR SMARTPHONE

2019 GERAN KPT COMPLETED MAIN RESEARCHER

8. A NEW RESILIENT ALGORITHM FOR MITIGATING MALWARE ATTACKS ON MOBILE PHONE USING MALWARE PHYLOGENETIC AND APOPTOSIS

2019 GERAN KPT COMPLETED MAIN RESEARCHER

9. 3D-RECONSTRUCTION OF HISTORICAL FRAGMENTS USIN ADVANCED MATHEMATICAL APPROACH

2019 GERAN SEPADAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

10. INTELLIGENT MALAYSIA OCCUPATIONAL SAFETY, SECURITY AND ENVIRONMENTAL DRONE (IMOSSED-1) AS A NEW SAFETY INSPECTION TOOL AT CONSTRUCTION SITE IN MALAYSIA

2019 GERAN PENYELIDIKAN AGENSI KERAJAAN ON GOING MAIN RESEARCHER

11. AN INTELLIGENT QURANIC REPOSITORY RETRIEVAL MODEL

2016 GERAN PENYELIDIKAN TRANSLASIONAL COMPLETED MAIN RESEARCHER

12. AN INTELLIGENT SELF-DESTRUCT SMARTPHONE ALGORITHM USING APOPTOSIS FOR ROOT EXPLOITATION

2014 GERAN KPT COMPLETED MAIN RESEARCHER

13. A NEW MODEL FOR BOTNET DETECTION.

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

14. A NEW FRAMEWORK TO ANALYSE TROJAN USING STATIC, DYNAMIC ANALYSES AND INCIDENT RESPONSE METHOD

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

15. SYSTEM SECURITY ASSESSMENT (SSA) IN USIM

2007 GERAN PENYELIDIKAN PANTAS BAWAH SETAHUN COMPLETED MAIN RESEARCHER

16. EFFICIENT DETECTION OF WORM ATTACK (EDOWA)

2007 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

PUBLICATION

1. BRIDGING EMOTIONAL INTELLIGENCE AND CYBER LITERACY: A HOLISTIC APPROACH TO MENTAL RESILIENCE IN MALAYSIA'S DAMAI 2024 COMMUNITY ENGAGEMENT
THE 5TH APUCEN SUMMIT 2024 IN CHONGQING, CHINA
2024 PROCEEDING NON-INDEX MAIN AUTHOR

2. CALLDETECT: DETECTION OF CALL LOG EXPLOITATION INSPIRED BY APOPTOSIS
INTERNATIONAL JOURNAL ON ADVANCED SCIENCE, ENGINEERING AND INFORMATION TECHNOLOGY
2020 JOURNAL SCOPUS MAIN AUTHOR

3. IMAGE DETECTION MODEL FOR CONSTRUCTION WORKER SAFETY CONDITIONS USING FASTER R-CNN
INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)
2020 JOURNAL SCOPUS MAIN AUTHOR

4. GO-DETECT APPLICATION INSPIRED BY APOPTOSIS TO DETECT SMS EXPLOITATION BY MALWARES
LECTURE NOTES IN MECHANICAL ENGINEERING,S
2020 CHAPTER IN BOOK MAIN AUTHOR

5. MALWARE CLASSIFICATION FOR CYBER PHYSICAL SYSTEM (CPS) BASED ON PHYLOGENETICS
INTERNATIONAL JOURNAL OF ENGINEERING & ADVANCED TECHNOLOGY (IJEAT)
2019 JOURNAL SCOPUS MAIN AUTHOR

6. SPATIAL SIGNATURE ALGORITHM (SSA): A NEW APPROACH IN COUNTERMEASURING XML SIGNATURE WRAPPING ATTACK
APPLIED MECHANICS AND MATERIALS
2019 JOURNAL ERA MAIN AUTHOR

7. MOBILE MALWARE CLASSIFICATION BASED ON PHYLOGENETICS
INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY(IJEAT)
2019 JOURNAL SCOPUS MAIN AUTHOR

8. OUTCOME BASED EDUCATION: INTRODUCTION AND IMPLEMENTATION GUIDELINES
2019 BOOK MAIN AUTHOR

9. GO-DETECT APPLICATION INSPIRED BY APOPTOSIS TO DETECT SMS EXPLOITATION BY MALWARES
LECTURE NOTES IN MECHANICAL ENGINEERING
2019 CHAPTER IN BOOK MAIN AUTHOR

10. MOBILE MALWARE CALL LOGS CLASSIFICATION BASED ON ANDROID PACKAGE INDEX (API)
JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY (JESTEC)
2018 JOURNAL SCOPUS MAIN AUTHOR

11. SPATIAL SIGNATURE METHOD (SSM) AGAINST XML SIGNATURE WRAPPING ATTACKS
EAAI CONFERENCE 2018
2018 PROCEEDING NON-INDEX MAIN AUTHOR

12. ANDROID BOTNET FEATURES FOR DETECTION MECHANISM
ADVANCED SCIENCE LETTERS
2017 JOURNAL SCOPUS MAIN AUTHOR

13. NEW COUNTERMEASURE APPROACH ON XML DIGITAL SIGNATURE AGAINST WRAPPING ATTACK
ADVANCED SCIENCE LETTERS
2017 JOURNAL SCOPUS MAIN AUTHOR

PUBLICATION

14. EVALUATION OF EWCDMCC CLOUD WORM DETECTION CLASSIFICATION BASED ON STATISTICAL ANALYSIS
ADVANCED SCIENCE LETTERS
2017 JOURNAL SCOPUS MAIN AUTHOR

15. INFORMATION SECURITY MANAGEMENT SYSTEMS (ISMS) AND COMPUTER SECURITY SELF-EFFICACY (CSSE) MODEL COMPARISON
ADVANCED SCIENCE LETTERS
2017 JOURNAL SCOPUS MAIN AUTHOR

16. MOBILE MALWARE CLASSIFICATION VIA SYSTEM CALLS AND PERMISSION FOR GPS EXPLOITATION
INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)
2017 JOURNAL WOS MAIN AUTHOR

17. A REVIEW AND PROOF OF CONCEPT FOR PHISHING SCAM DETECTION AND RESPONSE USING APOPTOSIS
INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS (IJACSA)
2017 JOURNAL WOS MAIN AUTHOR

18. A SYSTEMATIC REVIEW ANALYSIS FOR QURAN VERSES RETRIEVAL
JOURNAL OF ENGINEERING AND APPLIED SCIENCES
2016 JOURNAL SCOPUS MAIN AUTHOR

19. A NEW SYSTEM CALL CLASSIFICATION FOR ANDROID MOBILE MALWARE SURVEILLANCE EXPLOITATION VIA SMS MESSAGE
ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY, LECTURE NOTES IN ELECTRICAL ENGINEERING
2016 CHAPTER IN BOOK MAIN AUTHOR

20. A SYSTEMATIC REVIEW ANALYSIS OF ROOT EXPLOITATION FOR MOBILE BOTNET DETECTION
ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY,LECTURE NOTES IN ELECTRICAL ENGINEERING
2016 CHAPTER IN BOOK MAIN AUTHOR

21. A SYSTEMATIC ANALYSIS ON WORM DETECTION IN CLOUD-BASED SYSTEMS
ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES
2015 JOURNAL SCOPUS MAIN AUTHOR

22. COMPUTER SECURITY FACTORS EFFECTS TOWARDS ONLINE USAGE OF INTERNET BANKING SYSTEM
ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES
2015 JOURNAL SCOPUS MAIN AUTHOR

23. A COMPREHENSIVE REVIEW OF MOBILE BOTNET DETECTION USING GENETIC ALGORITHM: A SYSTEMATIC REVIEW
ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES
2015 JOURNAL SCOPUS MAIN AUTHOR

24. AN EFFICIENT EASY COMPUTER EMERGENCY RESPONSE TEAM MALWARE RESERVOIR SYSTEM (EZCERT)
INTERNATIONAL CONFERENCE ON COMPUTER MODELLING AND SIMULATION (UKSIM?15
2015 PROCEEDING NON-INDEX MAIN AUTHOR

25. ANDROID MOBILE MALWARE SURVEILLANCE EXPLOITATION VIA CALL LOGS: PROOF OF CONCEPT
17TH INTERNATIONAL CONFERENCE ON MODELLING AND SIMULATION
2015 PROCEEDING NON-INDEX MAIN AUTHOR

26. A NEW BOTNET CLASSIFICATION (ABC)
2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL SCIENCES & COMPUTER ENGINEERING (ICMSCE 2015)
2015 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

27. KESEDARAN KESELAMATAN SIBER - 101 PENGANALISAAN ANCAMAN SIBER

2015 BOOK MAIN AUTHOR

28. INTEGRATION OF NAQLI AND AQLI: FACULTY OF SCIENCE AND TECHNOLOGY

2015 BOOK MAIN AUTHOR

29. DESIGNING A NEW MODEL FOR TROJAN HORSE DETECTION USING SEQUENTIAL MINIMAL OPTIMIZATION

ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY

2015 CHAPTER IN BOOK MAIN AUTHOR

30. DESIGNING A NEW MODEL FOR WORM RESPONSE USING SECURITY METRICS

ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY

2015 CHAPTER IN BOOK MAIN AUTHOR

31. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUES USING GENETIC ALGORITHM

ADVANCED COMPUTER AND COMMUNICATION ENGINEERING TECHNOLOGY

2015 CHAPTER IN BOOK MAIN AUTHOR

32. DETECTING WORM ATTACKS IN CLOUD COMPUTING ENVIRONMENT: PROOF OF CONCEPT

AUSTRALIAN JOURNAL OF BASIC AND APPLIED SCIENCES

2014 JOURNAL SCOPUS MAIN AUTHOR

33. A SYSTEMATIC ANALYSIS TO TRANSFORM BIG DATA FOR DATA MINING ANALYSIS: A CASE STUDY USING LOG DATA

ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES

2014 JOURNAL SCOPUS MAIN AUTHOR

34. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUES USING GENETIC ALGORITHM

POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX MAIN AUTHOR

35. DESIGNING A NEW E-COMMERCE AUTHENTICATION FRAMEWORK FOR A CLOUD-BASED ENVIRONMENT

POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX MAIN AUTHOR

36. DESIGNING A NEW E-COMMERCE AUTHENTICATION FRAMEWORK FOR A CLOUD-BASED ENVIRONMENT

POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX MAIN AUTHOR

37. DESIGNING A NEW E-COMMERCE AUTHENTICATION FRAMEWORK FOR A CLOUD-BASED ENVIRONMENT

POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX MAIN AUTHOR

38. DETECTING WORM ATTACKS IN CLOUD COMPUTING ENVIRONMENT: PROOF OF CONCEPT

2014 IEEE 5TH CONTROL AND SYSTEM GRADUATE RESEARCH COLLOQUIUM (ICSGRC)

2014 PROCEEDING NON-INDEX MAIN AUTHOR

39. EFFECTIVENESS OF COMPUTER SECURITY FACTORS TOWARDS ONLINE INTERNET BANKING USAGE

POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY

2014 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

40. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUE USING APOPTOSIS
POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY
2014 PROCEEDING NON-INDEX MAIN AUTHOR

41. A SYSTEMATIC ANALYSIS FOR BOTNET DETECTION USING GENETIC ALGORITHM
POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY
2014 PROCEEDING NON-INDEX MAIN AUTHOR

42. MOBILE BOTNET DETECTION: STATIC ANALYSIS OF ANDROID APPLICATIONS
POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY
2014 PROCEEDING NON-INDEX MAIN AUTHOR

43. DESIGNING A NEW MODEL TO DETECT WORM ATTACKS IN CLOUD COMPUTING
POSTGRADUATE COLLOQUIUM 2014 FACULTY OF SCIENCE AND TECHNOLOGY
2014 PROCEEDING NON-INDEX MAIN AUTHOR

44. MOBILE BOTNET DETECTION: PROOF OF CONCEPT
2014 IEEE 5TH CONTROL AND SYSTEM GRADUATE RESEARCH COLLOQUIUM (ICSGRC)
2014 PROCEEDING NON-INDEX MAIN AUTHOR

45. AN EFFICIENT TROJAN HORSE CLASSIFICATION (ETC)
INTERNATION JOURNAL OF COMPUTER SCIENCE ISSUES
2013 JOURNAL WOS MAIN AUTHOR

46. AN EFFICIENT FRAMEWORK TO BUILD UP MALWARE DATASET
INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND ENGINEERING
2013 JOURNAL WOS MAIN AUTHOR

47. A NEW MODEL FOR TROJAN DETECTION USING KNOWLEDGE DATA DISCOVERY AND MACHINE LEARNING
SEMINAR CREATIVITY AND INNOVATION, EKSPO INOVASI ISLAM KE-4 (I-INOVA?13)
2013 PROCEEDING NON-INDEX MAIN AUTHOR

48. STANDARD OPERATING PROCEDURES (SOP) TO BUILD UP MALWARE DATASET
3RD INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING & COMPUTER SYSTEMS (ICSECS - 2013
2013 PROCEEDING NON-INDEX MAIN AUTHOR

49. MOBILE MALWARE DETECTION: PROOF OF CONCEPT
3RD INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING & COMPUTER SYSTEMS (ICSECS - 2013
2013 PROCEEDING NON-INDEX MAIN AUTHOR

50. COMPUTER SECURITY SELF-EFFICACY EFFECT: AN EXTENTION OF TECHNOLOGY-TO-PERFORMANCE CHAIN MODE
2012 IEEE CONTROL AND SYSTEM GRADUATE RESEARCH COLLOQUIUM (ICSGRC)
2012 PROCEEDING NON-INDEX MAIN AUTHOR

51. EFFICIENT STAKCERT KDD PROCESSES IN WORM DETECTION
WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY JOURNAL
2011 JOURNAL WOS MAIN AUTHOR

52. EFFICIENT STAKCERT KDD PROCESSES IN WORM DETECTION
INTERNATIONAL CONFERENCE ON COMPUTER AND INFORMATION SCIENCE
2011 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

53. STAKCERT WORM RELATIONAL MODEL FOR WORM DETECTION
LECTURE NOTES IN ENGINEERING AND COMPUTER SCIENCE
2010 CHAPTER IN BOOK MAIN AUTHOR

54. STATISTICAL ANALYSIS IN EVALUATING STAKCERT INFECTION, ACTIVATION AND PAYLOAD METHODS
LECTURE NOTES IN ENGINEERING AND COMPUTER SCIENCE
2010 CHAPTER IN BOOK MAIN AUTHOR

55. STAKCERT FRAMEWORK IN CONFRONTING WORMS ATTACK
2ND IEEE INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
2009 PROCEEDING NON-INDEX MAIN AUTHOR

56. STAKCERT FRAMEWORK IN ERADICATING WORMS ATTACK
INTERNATION CONFERENCE ON CYBER WORLDS
2009 PROCEEDING NON-INDEX MAIN AUTHOR

57. REVERSE ENGINEERING: EDOWA WORM ANALYSIS AND CLASSIFICATION
ADVANCES IN ELECTRICAL ENGINEERING AND COMPUTATIONAL SCIENCE: LECTURE NOTES IN ELECTRICAL ENGINEERING
2009 CHAPTER IN BOOK MAIN AUTHOR

58. WORM ANALYSIS THROUGH COMPUTER SIMULATION (WATCOS)
2008 INTERNATIONAL CONFERENCE OF INFORMATION SECURITY AND INTERNET ENGINEERING
2008 PROCEEDING NON-INDEX MAIN AUTHOR

59. EDOWA WORM CLASSIFICATION
2008 INTERNATIONAL CONFERENCE OF INFORMATION SECURITY AND INTERNET ENGINEERING
2008 PROCEEDING NON-INDEX MAIN AUTHOR

60. DEFENDING WORMS ATTACK THROUGH EDOWA SYSTEM
INTERNATIONAL SYMPOSIUM ON INFORMATION TECHNOLOGY 2008
2008 PROCEEDING NON-INDEX MAIN AUTHOR

61. USER AWARENESS ON VIRUS IN WINDOWS PLATFORM
JOURNAL OF INFORMATION TECHNOLOGY AND MULTIMEDIA
2007 JOURNAL WOS MAIN AUTHOR

62. PHISHING: CHALLENGES AND ISSUES IN MALAYSIA?
14TH INTERNATIONAL CONFERENCE OF LEARNING,
2007 PROCEEDING NON-INDEX MAIN AUTHOR

63. KNOWLEDGE STRUCTURE ON VIRUS FOR USER EDUCATION
LECTURE NOTES IN COMPUTER SCIENCE
2007 CHAPTER IN BOOK MAIN AUTHOR

CONSULTATION

1. KEBOLEHAN INSTITUT SOSIAL MALAYSIA (ISM) SEBAGAI AGENSI AKREDITASI KERJA SOSIAL MALAYSIA
UKM PAKARUNDING
2024 NATIONAL

2. SME PEMBANGUNAN SOP MYGDX
HLA INTEGRATED SDN BHD
2023 NATIONAL

3. SUBJECT MATTER EXPERT (SME) FOR KSA IN DATA PRIVACY MANAGEMENT
CYBERSECURITY MALAYSIA(CSM)
2021 NATIONAL

4. SUBJECT MATTER EXPERT (SME) FOR SYSTEM DEVELOPMENT MALAYSIA URBAN OBSERVATORY (MUO)
MAP2U
2021 NATIONAL

5. PROGRAM CERTIFIED ETHICAL CYBERSECURITY PENETRATION TESTER
KEMENTERIAN PENDIDIKAN MALYSIA (KPM)
2019 NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH PENSYARAH PILIHAN(KATEGORI PEREMPUAN)
2024 OTHERS

2. ANUGERAH PERKEMBANGAN KERJAYA
2024 OTHERS

3. ANUGERAH PENCAPAIAN RPI TERTINGGI
2024 OTHERS

4. ANUGERAH KUALITI
2024 OTHERS

5. ANUGERAH E-PEMBELAJARAN USIM
2024 UNIVERSITY