

Profile Image

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PENSYARAH UNIVERSITI GRED
KHAS C

CONTACT

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madihah@usim.edu.my

Faculty: Fakulti Sains
Dan Teknologi

SUPERVISION

PhD - Completed: 0, O.
3

Master - Completed: 5,
Ongoing: 0

AREAS OF EXPERTISE

Malware, Worms And Viruses

Mobile Computing

Other Artificial Intelligence And Machine Learning N.e.c

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 MALAYSIA (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