



## PROF. TS. DR. MADIHAH BINTI MOHD SAUDI

PENSYARAH UNIVERSITI GRED  
KHAS C

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Address: Fakulti Sains Dan  
Teknologi

### SUPERVISION

PhD - Completed: 10, Ongoing: 3

Master - Completed: 5, Ongoing: 0

## AREAS OF EXPERTISE

Malware, Worms And Viruses

Mobile Computing

Other Artificial Intelligence And Machine Learning N.e.c

## BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Komputer.

## 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 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 ON GOING MAIN RESEARCHER

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

2024 ON GOING MAIN RESEARCHER

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

2022 ON GOING MAIN RESEARCHER

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

2020 COMPLETED MAIN RESEARCHER

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

2020 COMPLETED MAIN RESEARCHER

**7. EZCYBERCRIME DETECTION AND RESPONSE MOBILE APPS PROTOTYPE FOR SMARTPHONE**

2019 COMPLETED MAIN RESEARCHER

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

2019 COMPLETED MAIN RESEARCHER

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

2019 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 ON GOING MAIN RESEARCHER

**11. AN INTELLIGENT QURANIC REPOSITORY RETRIEVAL MODEL**

2016 COMPLETED MAIN RESEARCHER

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

2014 COMPLETED MAIN RESEARCHER

**13. A NEW MODEL FOR BOTNET DETECTION.**

2012 COMPLETED MAIN RESEARCHER

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

2012 COMPLETED MAIN RESEARCHER

**15. SYSTEM SECURITY ASSESSMENT (SSA) IN USIM**

2007 COMPLETED MAIN RESEARCHER

**16. EFFICIENT DETECTION OF WORM ATTACK (EDOWA)**

2007 COMPLETED MAIN RESEARCHER

# PUBLICATION

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1. BRIDGING EMOTIONAL INTELLIGENCE AND CYBER LITERACY: A HOLISTIC APPROACH TO MENTAL RESILIENCE IN MALAYSIA'S DAMAI 2024 COMMUNITY ENGAGEMENT

2024 PROCEEDING

2. DASAR, GARIS PANDUAN DAN PROSEDUR OPERASI STANDARD PERKONGSIAN DATA SELANGOR

2024 POLICY

3. USIM'S SMART UNIVERSITY BLUEPRINT: ADVANCES AND CHALLENGES

2023 JOURNAL

4. CALLEDTECT: DETECTION OF CALL LOG EXPLOITATION INSPIRED BY APOPTOSIS

2020 JOURNAL

5. IMAGE DETECTION MODEL FOR CONSTRUCTION WORKER SAFETY CONDITIONS USING FASTER R-CNN

2020 JOURNAL

6. GO-DETECT APPLICATION INSPIRED BY APOPTOSIS TO DETECT SMS EXPLOITATION BY MALWARES

2020 CHAPTER IN BOOK

7. MALWARE CLASSIFICATION FOR CYBER PHYSICAL SYSTEM (CPS) BASED ON PHYLOGENETICS

2019 JOURNAL

8. SPATIAL SIGNATURE ALGORITHM (SSA): A NEW APPROACH IN COUNTERMEASURING XML SIGNATURE WRAPPING ATTACK

2019 JOURNAL

9. MOBILE MALWARE CLASSIFICATION BASED ON PHYLOGENETICS

2019 JOURNAL

10. OUTCOME BASED EDUCATION: INTRODUCTION AND IMPLEMENTATION GUIDELINES

2019 BOOK

11. GO-DETECT APPLICATION INSPIRED BY APOPTOSIS TO DETECT SMS EXPLOITATION BY MALWARES

2019 CHAPTER IN BOOK

12. MOBILE MALWARE CALL LOGS CLASSIFICATION BASED ON ANDROID PACKAGE INDEX (API)

2018 JOURNAL

13. SPATIAL SIGNATURE METHOD (SSM) AGAINST XML SIGNATURE WRAPPING ATTACKS

2018 PROCEEDING

14. ANDROID BOTNET FEATURES FOR DETECTION MECHANISM

2017 JOURNAL

15. NEW COUNTERMEASURE APPROACH ON XML DIGITAL SIGNATURE AGAINST WRAPPING ATTACK

2017 JOURNAL

16. EVALUATION OF EWCDMCC CLOUD WORM DETECTION CLASSIFICATION BASED ON STATISTICAL ANALYSIS

2017 JOURNAL

**17. INFORMATION SECURITY MANAGEMENT SYSTEMS (ISMS) AND COMPUTER SECURITY SELF-EFFICACY (CSSE) MODEL COMPARISON**

2017 JOURNAL

**18. MOBILE MALWARE CLASSIFICATION VIA SYSTEM CALLS AND PERMISSION FOR GPS EXPLOITATION**

2017 JOURNAL

**19. A REVIEW AND PROOF OF CONCEPT FOR PHISHING SCAM DETECTION AND RESPONSE USING APOPTOSIS**

2017 JOURNAL

**20. A SYSTEMATIC REVIEW ANALYSIS FOR QURAN VERSES RETRIEVAL**

2016 JOURNAL

**21. A NEW SYSTEM CALL CLASSIFICATION FOR ANDROID MOBILE MALWARE SURVEILLANCE EXPLOITATION VIA SMS MESSAGE**

2016 CHAPTER IN BOOK

**22. A SYSTEMATIC REVIEW ANALYSIS OF ROOT EXPLOITATION FOR MOBILE BOTNET DETECTION**

2016 CHAPTER IN BOOK

**23. A SYSTEMATIC ANALYSIS ON WORM DETECTION IN CLOUD-BASED SYSTEMS**

2015 JOURNAL

**24. COMPUTER SECURITY FACTORS EFFECTS TOWARDS ONLINE USAGE OF INTERNET BANKING SYSTEM**

2015 JOURNAL

**25. A COMPREHENSIVE REVIEW OF MOBILE BOTNET DETECTION USING GENETIC ALGORITHM: A SYSTEMATIC REVIEW**

2015 JOURNAL

**26. AN EFFICIENT EASY COMPUTER EMERGENCY RESPONSE TEAM MALWARE RESERVOIR SYSTEM (EZCERT)**

2015 PROCEEDING

**27. ANDROID MOBILE MALWARE SURVEILLANCE EXPLOITATION VIA CALL LOGS: PROOF OF CONCEPT**

2015 PROCEEDING

**28. A NEW BOTNET CLASSIFICATION (ABC)**

2015 PROCEEDING

**29. KESEDARAN KESELAMATAN SIBER - 101 PENGANALISAAN ANCAMAN SIBER**

2015 BOOK

**30. INTEGRATION OF NAQLI AND AQLI: FACULTY OF SCIENCE AND TECHNOLOGY**

2015 BOOK

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

2015 CHAPTER IN BOOK

**32. DESIGNING A NEW MODEL FOR WORM RESPONSE USING SECURITY METRICS**

2015 CHAPTER IN BOOK

**33. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUES USING GENETIC ALGORITHM**

2015 CHAPTER IN BOOK

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

2014 JOURNAL

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

2014 JOURNAL

**36. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUES USING GENETIC ALGORITHM**

2014 PROCEEDING

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

2014 PROCEEDING

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

2014 PROCEEDING

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

2014 PROCEEDING

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

2014 PROCEEDING

**41. EFFECTIVENESS OF COMPUTER SECURITY FACTORS TOWARDS ONLINE INTERNET BANKING USAGE**

2014 PROCEEDING

**42. SYSTEMATIC ANALYSIS ON MOBILE BOTNET DETECTION TECHNIQUE USING APOPTOSIS**

2014 PROCEEDING

**43. A SYSTEMATIC ANALYSIS FOR BOTNET DETECTION USING GENETIC ALGORITHM**

2014 PROCEEDING

**44. MOBILE BOTNET DETECTION: STATIC ANALYSIS OF ANDROID APPLICATIONS**

2014 PROCEEDING

**45. DESIGNING A NEW MODEL TO DETECT WORM ATTACKS IN CLOUD COMPUTING**

2014 PROCEEDING

**46. MOBILE BOTNET DETECTION: PROOF OF CONCEPT**

2014 PROCEEDING

**47. AN EFFICIENT TROJAN HORSE CLASSIFICATION (ETC)**

2013 JOURNAL

**48. AN EFFICIENT FRAMEWORK TO BUILD UP MALWARE DATASET**

2013 JOURNAL

**49. A NEW MODEL FOR TROJAN DETECTION USING KNOWLEDGE DATA DISCOVERY AND MACHINE LEARNING**

2013 PROCEEDING

**50. STANDARD OPERATING PROCEDURES (SOP) TO BUILD UP MALWARE DATASET**

2013 PROCEEDING

**51. MOBILE MALWARE DETECTION: PROOF OF CONCEPT**

2013 PROCEEDING

## 52. COMPUTER SECURITY SELF-EFFICACY EFFECT: AN EXTENTION OF TECHNOLOGY-TO-PERFORMANCE CHAIN MODE

2012 PROCEEDING

## 53. EFFICIENT STAKCERT KDD PROCESSES IN WORM DETECTION

2011 JOURNAL

## 54. EFFICIENT STAKCERT KDD PROCESSES IN WORM DETECTION

2011 PROCEEDING

## 55. STAKCERT WORM RELATIONAL MODEL FOR WORM DETECTION

2010 CHAPTER IN BOOK

## 56. STATISTICAL ANALYSIS IN EVALUATING STAKCERT INFECTION, ACTIVATION AND PAYLOAD METHODS

2010 CHAPTER IN BOOK

## 57. STAKCERT FRAMEWORK IN CONFRONTING WORMS ATTACK

2009 PROCEEDING

## 58. STAKCERT FRAMEWORK IN ERADICATING WORMS ATTACK

2009 PROCEEDING

## 59. REVERSE ENGINEERING: EDOWA WORM ANALYSIS AND CLASSIFICATION

2009 CHAPTER IN BOOK

## 60. WORM ANALYSIS THROUGH COMPUTER SIMULATION (WATCOS)

2008 PROCEEDING

## 61. EDOWA WORM CLASSIFICATION

2008 PROCEEDING

## 62. DEFENDING WORMS ATTACK THROUGH EDOWA SYSTEM

2008 PROCEEDING

## 63. USER AWARENESS ON VIRUS IN WINDOWS PLATFORM

2007 JOURNAL

## 64. PHISHING: CHALLENGES AND ISSUES IN MALAYSIA?

2007 PROCEEDING

## 65. KNOWLEDGE STRUCTURE ON VIRUS FOR USER EDUCATION

2007 CHAPTER IN BOOK

## CONSULTATION/ADULATION

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### 1. KEMAMPUAN INSTITUT SOSIAL MALAYSIA (ISM) SEBAGAI AGENSI AKREDITASI KERJA SOSIAL MALAYSIA

2024 NATIONAL UKM PAKARUNDING

### 2. SME PEMBANGUNAN SOP MYGDX

2023 NATIONAL HLA INTEGRATED SDN BHD

### 3. SUBJECT MATTER EXPERT (SME) FOR KSA IN DATA PRIVACY MANAGEMENT

2021 NATIONAL CYBERSECURITY MALAYSIA(CSM)

#### 4. SUBJECT MATTER EXPERT (SME) FOR SYSTEM DEVELOPMENT MALAYSIA URBAN OBSERVATORY (MUO)

2021 NATIONAL MAP2U

#### 5. PROGRAM CERTIFIED ETHICAL CYBERSECURITY PENETRATION TESTER

2019 NATIONAL KEMENTERIAN PENDIDIKAN MALYSIA (KPM)

## AWARDS/RECOGNITION

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#### 1. ANUGERAH PENERBITAN JURNAL Q1

2025 OTHERS

#### 2. ANUGERAH PENCAPAIAN RPI TERTINGGI

2025 OTHERS

#### 3. ANUGERAH JARINGAN KERJASAMA TERBAIK

2025 OTHERS

#### 4. ANUGERAH PENERIMA GERAN PENYELIDIKAN

2025 OTHERS

#### 5. ANUGERAH PENERIMA GERAN PENYELIDIKAN

2025 OTHERS