

Profile Image

## 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: 10,  
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

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## 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

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## 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. CALLEDTECT: 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

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## 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

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## 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

ARPJ 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

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## 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, EKSPLO INOVASI ISLAM KE-4 (I-INOVASI13)

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

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## 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

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## 1. KEMAMPUAN 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

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## 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