



**PROF. MADYA DR.
SUNDRESAN A/L PERUMAL**

PENSYARAH UNIVERSITI DS14

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Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 3, Ongoing: 8

Master - Completed: 1, Ongoing: 2

AREAS OF EXPERTISE

Computer Forensic

Cybersecurity And Cyberwarfare Preparedness

Expert Systems And Machine Learning

BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Digital Forensic / Computer Security.

ACADEMIC QUALIFICATION

Phd in Digital Forensic / Computer Security (2012)

RESEARCH

1. DEVELOPMENT OF SMART LUGGAGE TROLLEY TRACKING SYSTEM (S-TRACKER) USING NB-IOT TECHNOLOGIES FOR SUSTAINABLE LOGISTIC MANAGEMENT AT KUALA LUMPUR INTERNATIONAL AIRPORT

2025

ON GOING

MAIN RESEARCHER

2. AN AI-EMBEDDED WEB INTELLIGENCE SYSTEM FOR AUTOMATED MULTI-SOURCE KNOWLEDGE EXTRACTION, COMPARISON, AND DECISION SUPPORT

2025

ON GOING

MAIN RESEARCHER

3. DEVELOPMENT OF SMART LUGGAGE TROLLEY TRACKING SYSTEM (S-TRACKER) USING NB-IOT TECHNOLOGIES FOR SUSTAINABLE LOGISTIC MANAGEMENT AT KUALA LUMPUR INTERNATIONAL AIRPORT

2025

ON GOING

MAIN RESEARCHER

4. DEVELOPMENT OF SMART LUGGAGE TROLLEY TRACKING SYSTEM (S-TRACKER) USING NB-IOT TECHNOLOGY

2024

ON GOING

MAIN RESEARCHER

5. SMART CROPS: CIRCADIAN RHYTHMS OPTIMIZATION (CROPS) IN HEALTHCARE SHIFT WORKERS USING DEEP LEARNING APPROACH

2024

ON GOING

MAIN RESEARCHER

6. INTEGRATING CLINICAL ASSESSMENT WITH MACHINE LEARNING FOR DETECTING ONLINE DEPRESSIVE SYMPTOMS AMONG MEDICAL STUDENTS THROUGH SOCIAL MEDIA TEXTS

2024 ON GOING MAIN RESEARCHER

7. TERMITES TRACKER: AUTOMATIC CLASSIFICATION OF TERMITES GENERA IMAGES USING DEEP LEARNING CLASSIFIER APPROACH FOR ENTOMOLOGISTS IN BORNEO ISLAND

2023 ON GOING MAIN RESEARCHER

8. MISIMIS RESOURCE PLANNING ANALYTICS SYSTEM (MRPAS)

2020 COMPLETED MAIN RESEARCHER

9. STRATEGY DEVELOPMENT ON E-LEARNING SOFTWARE PLATFORM

2020 COMPLETED MAIN RESEARCHER

10. KIPLE FRAUD MANAGEMENT SYSTEM

2019 COMPLETED MAIN RESEARCHER

11. NOVEL INTERNET OF MEDICAL THINGS (IOMT) BASED DATA MANAGEMENT ALGORITHM TO TRANSFORM TRADITIONAL RESUSCITATION ROOM PROCEDURE TO SMART RESUSCITATION ROOM.

2019 COMPLETED MAIN RESEARCHER

12. INTERACTIVE AND AUTOMATED COURSE SCHEDULING SYSTEM, FOR USIM

2016 COMPLETED MAIN RESEARCHER

13. MOBILE FORENSIC EVIDENCE EXTRACTION TOOL (D-MOBILE)

2015 COMPLETED MAIN RESEARCHER

PUBLICATION

1. IMPROVING PERFORMANCE USING 2 X 2 SINGLE ELEMENT MASSIVE MIMO ANTENNA IN 6G DEVICES

2025 JOURNAL

2. MACHINE LEARNING FOR ASTHMA PREDICTION: ANALYZING HEALTH DATA FOR EARLY DETECTION

2025 PROCEEDING

3. PREDICTING CO-MORBID CHRONIC DISEASES: HYPERTENSION AND DIABETES USING DEEP LEARNING

2025 PROCEEDING

4. SECURITY WEARABLE GADGET FOR WOMEN UTILIZING THE INTERNET OF THINGS

2025 PROCEEDING

5. INTERNET OF THINGS (IOT) SECURITY AND PRIVACY: ISSUES AND THEIR SOLUTIONS

2025 PROCEEDING

6. MACHINE LEARNING ALGORITHMS FOR THE EXTENSIVE FORECASTING OF PARKING ACCESSIBILITY IN SUSTAINABLE URBAN AREAS

2025 PROCEEDING

7. PARKINSON'S DISEASE PROGRESSION PREDICTION USING TRANSFORMER ? BASED TIME- SERIES MODELS AND EXPLAINABLE AI (XAI)

2025 PROCEEDING

8. MACHINE LEARNING-BASED CLASSIFICATION OF TERMITE GENERA

2024 JOURNAL

9. MULTIMODAL RAG ANALYSIS OF PRODUCT DATASHEET

2024 JOURNAL

10. GUIDELINES TO PREVENT SOCIAL ENGINEERING ATTACKS FOR LAW ENFORCEMENT AGENCY

2024 PROCEEDING

11. CYBERSECURITY ISSUES AND CHALLENGES IN QUANTUM COMPUTING

2024 CHAPTER IN BOOK

12. CLASSIFICATION OF FILELESS MALWARE UNDER ADVANCED PERSISTENT THREAT (APT) ATTACK

2023 PROCEEDING

13. CLASSIFICATION OF FILELESS MALWARE UNDER ADVANCED PERSISTENT THREAT (APT) ATTACK

2023 PROCEEDING

14. PREDICTION MODEL FOR HEART DISEASE USING CLUSTERING AND CLASSIFICATION TECHNIQUES.

2023 PROCEEDING

15. PROPOSED CYBER HARASSMENT MODEL FOR SOCIAL MEDIA USERS IN MALAYSIA

2023 PROCEEDING

16. INFORMATION SECURITY POLICY COMPLIANCE BEHAVIOR MODELS, THEORIES, AND INFLUENCING FACTORS: A SYSTEMATIC LITERATURE REVIEW

2022 JOURNAL

17. ENHANCED SPATIAL PYRAMID POOLING AND INTERSECTION OVER UNION IN YOLOV4 FOR REAL-TIME GROCERY RECOGNITION SYSTEM

2022 JOURNAL

18. SECURING DATA USING DEEP HIDING SELECTED THE LEAST SIGNIFICANT BIT AND ADAPTIVE SWARM ALGORITHM

2022 JOURNAL

19. AN EFFECTUAL SECURED APPROACH AGAINST SYBIL ATTACKS IN WIRELESS NETWORKS

2022 JOURNAL

20. COMPREHENSIVE LITERATURE REVIEW ON DELAY TOLERANT NETWORK (DTN) FRAMEWORK FOR IMPROVING THE EFFICIENCY OF INTERNET CONNECTION IN RURAL REGIONS OF MALAYSIA

2022 JOURNAL

21. ENHANCED DISRUPTION TOLERANT NETWORK (DTN) FRAMEWORK FOR IMPROVING NETWORK EFFICIENCY IN RURAL AREAS

2022 JOURNAL

22. PROPOSED CLOUD COMPUTING RISK ASSESSMENT FRAMEWORK FOR FINANCIAL INSTITUTIONS

2022 PROCEEDING

23. A CLOUD COMPUTING ADOPTION CHALLENGES IN FINANCIAL INSTITUTION.

2022 PROCEEDING

24. A CLOUD COMPUTING ADOPTION CHALLENGES IN FINANCIAL INSTITUTION

2021 PROCEEDING

25. CYBERCOP

2021 BOOK

26. CYBERCRIME ISSUES IN SMART CITIES NETWORKS AND PREVENTION USING ETHICAL HACKING

2021 CHAPTER IN BOOK

27. A REVIEW ON RISK ASSESSMENT USING RISK PREDICTION TECHNIQUE IN THE CAMPUS NETWORK

2020 JOURNAL

28. INFORMATION SECURITY COMPLIANCE FRAMEWORK FOR DATA CENTER IN UTILITY COMPANY

2020 JOURNAL

29. EVALUATION OF TOURISM INFORMATION ACCURACY ASSESSMENT FRAMEWORK

2020 JOURNAL

30. INDUSTRIAL INTERNET OF THINGS (IIOT) OF FORENSIC AND VULNERABILITIES

2020 JOURNAL

31. SYSTEMATIC LITERATURE REVIEW OF INFORMATION SECURITY COMPLIANCE BEHAVIOUR THEORIES

2020 JOURNAL

32. GRAPH ANALYSIS STUDY OF A CITY BUS TRANSIT NETWORK

2020 JOURNAL

33. A REVIEW ON RISK ASSESSMENT USING RISK PREDICTION TECHNIQUE IN THE CAMPUS NETWORK

2020 PROCEEDING

34. INFORMATION SECURITY COMPLIANCE FRAMEWORK FOR DATA CENTER IN UTILITY COMPANY

2020 PROCEEDING

35. EVALUATION OF TOURISM INFORMATION ACCURACY ASSESSMENT FRAMEWORK

2020 PROCEEDING

36. PROPOSED CUSTOMER'S SENSITIVE INFORMATION PRIVACY MODEL FOR FINANCIAL INSTITUTION

2019 PROCEEDING

37. DETECTING FALSE MESSAGES IN THE SMARTPHONE FAULT REPORTING SYSTEM

2019 PROCEEDING

38. TRANSFORMATIVE CYBER SECURITY MODEL FOR MALAYSIAN GOVERNMENT AGENCIES

2018 JOURNAL

39. COMPARATIVE STUDIES ON MOBILE FORENSIC EVIDENCE EXTRACTION OPEN SOURCE SOFTWARE FOR ANDROID PHONE

2017 JOURNAL

40. PROPOSED SEED PIXEL REGION GROWING SEGMENTATION AND ARTIFICIAL NEURAL NETWORK CLASSIFIER FOR DETECTING THE RENAL CALCULI IN ULTRASOUND IMAGES FOR UROLOGIST DECISIONS

2016 JOURNAL

41. INTERNET OF THINGS(IOT) DIGITAL FORENSIC INVESTIGATION MODEL: TOP-DOWN FORENSIC APPROACH METHODOLOGY

2015 PROCEEDING

42. INTERACTIVE DATA MINING: A SHORT BACKGROUND STUDY ON EFFECTIVE INTERACTION AND VISUALIZATION BY ASSOCIATION RULES

2015 PROCEEDING

43. SEMANTIC EXTRACTOR TOOL: MATLAB RESULTS AND EVALUATION ON SEMATIC EXTRACTION IN SPORTS VIDEO

2014 PROCEEDING

44. NEW IMPROVEMENT IN DIGITAL FORENSIC STANDARDS OPERATING PROCEDURE (SOP)

2011 PROCEEDING

45. JUMPSTART ON DIGITAL FORENSIC INVESTIGATION FOCUSING INTO MOBILE PDA

2008 PROCEEDING

46. THE SUCCESS FRAMEWORK TRANSITION FROM GOVERNMENT TO E-GOVERNANCE

2008 PROCEEDING

47. COMPUTER FORENSICS WITH IMPROVED FRAMEWORK MODEL

2008 PROCEEDING

48. SUCCESSFUL IT TECHNICAL FRAMEWORK FOR E-GOVERNANCE BASED ON MALAYSIAN CASE STUDY

2007 PROCEEDING

49. THE SUCCESS MODEL OF EVOLUTIONS FROM GOVERNMENT TO E-GOVERNANCE

2006 PROCEEDING

CONSULTATION/ADULATION

1. KIPLE PAY MAINTANACE

2021

NATIONAL

KIPLE PAY SDN.BHD

2. MISMIS RESOURCE PLANNING ANALYTICS SYSTEM MRPAS)

2020

NATIONAL

FUNDER:KPT(PPRN) / NFA TECHNOLOGIES SDN BHD

3. STRATEGY DEVELOPMENT ON E-LEARNING SOFTWARE

2020

INTERNATIONAL

AXCELASIA SOFTNEX

4. KIPLE FRAUD MANAGEMENT SYSTEM

2019

INTERNATIONAL

WEB ONLINE SDN BHD

5. MRP SYSTEM DEVELOPMENT

2017

NATIONAL

INDKOM ENGINEERING

AWARDS/RECOGNITION

1. STAFF CONTOH BULAN (KATEGORI -AKADEMIK ANTARABANGSA)

2025

UNIVERSITY

2. VISITING LECTURER (PENSYARAH PELAWAT)

2025

INTERNATIONAL

3. CONFERENCE PAPER REVIEWER

2025

INTERNATIONAL

4. VISITING LECTURER (PENSYARAH PELAWAT)

2025

INTERNATIONAL

5. CONFERENCE PAPER REVIEWER

2025

INTERNATIONAL