



**PROF. MADYA TS. DR.
SAKINAH BINTI ALI
PITCHAY**

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 0679886426

E-mail:
sakinah.ali@usim.edu.my

Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 2, Ongoing: 3

Master - Completed: 4, Ongoing: 4

AREAS OF EXPERTISE

Information System Security

Artificial Intelligence And Optimisation Methods

Software Requirements Engineering

BIOGRAPHY

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

ACADEMIC QUALIFICATION

Phd in Sains Komputer (2013)

Master in Kejuruteraan Perisian (2007)

Bachelor in Kejuruteraan Perisian (2005)

RESEARCH

1. AI-DRIVEN CYBERSECURITY THROUGH CYBER HASANAT FOR SUSTAINABLE DIGITAL COMMUNITIES

2025 COMPLETED MAIN RESEARCHER

2. CYBER HASANAT: SECURE CYBERCITIZENSHIP AWARENESS

2024 COMPLETED MAIN RESEARCHER

3. A MULTILAYER SECURE GEO-FENCING SURVEILLANCE FRAMEWORK FOR PUBLIC HEALTH CONTROL OF INFECTIOUS DISEASE MONITORING

2023 ON GOING MAIN RESEARCHER

4. ENHANCING DISASTER PREPAREDNESS AND RESILIENCE THROUGH A MOBILE EDUTAINMENT BASED ON USER-CENTERED APPROACH

2023 ON GOING MAIN RESEARCHER

5. GAME-BASED LEARNING TOOL FOR CYBERSECURITY AWARENESS WITH NAQLI AND AQLI INTEGRATION

2022 COMPLETED MAIN RESEARCHER

6. A NEW ALGORITHM OF GEO-ENCRYPTION BASED ON LOCATION FOR SECURE CLOUD STORAGE

2017 COMPLETED MAIN RESEARCHER

7. A NEW ALGORITHM FOR ADAPTATION RULES USING CASE-BASED REASONING (CBR) TECHNIQUE.

2014 COMPLETED MAIN RESEARCHER

8. INVESTIGATION ON RECONSTRUCTION OF BINARY IMAGE USING GENETIC ALGORITHM

2014 COMPLETED MAIN RESEARCHER

PUBLICATION

1. EVALUATION OF USER-CENTRED DESIGN IN THE USER INTERFACE (UI) AND USER EXPERIENCE (UX) OF A GAMIFIED EDUTAINMENT APPLICATION ON DISASTER PREPAREDNESS

2026 JOURNAL

2. BEYOND THE BOARD: CYBERPOLY AS A MULTIDIMENSIONAL GAMIFIED LEARNING TOOL FOR CYBERSECURITY AWARENESS

2025 JOURNAL

3. SWINDLERT: DEVELOPMENT OF AUGMENTED REALITY GAME-BASED INTERACTIVITY FOR ENHANCING CYBERCRIME AWARENESS

2025 JOURNAL

4. PKP OH PKP!

2025 CHAPTER IN BOOK

5. GAME-BASED CYBERSECURITY LEARNING: INTEGRATING NAQLI AND AQLI FOR RESILIENT DIGITAL CITIZENS

2025 CHAPTER IN BOOK

6. CYBER HASANAT: A SERVICE-LEARNING APPROACH TO BUILDING DIGITAL CITIZENSHIP IN EDUCATION

2025 CHAPTER IN BOOK

7. DISASTERPREP: GAMIFIED MOBILE EDUTAINMENT FOR FUTURE DISASTER PREPAREDNESS AND RESILIENCE

2024 JOURNAL

8. SAKTI?: SECURED CHATTING TOOL THROUGH FORWARD SECRECY

2024 JOURNAL

9. IMPROVING ARABIC LANGUAGE PROFICIENCY WITH INTERACTIVE MOBILE APPLICATION AL-MUALIM: A LEARNER-CENTRED APPROACH

2024 PROCEEDING

10. SWINDLERT?: DEVELOPMENT OF AUGMENTED REALITY GAME-BASED INTERACTIVITY FOR ENHANCING CYBERCRIME AWARENESS

2024 PROCEEDING

11. GLOBALIZING CYBER HASANAT: CULTIVATING DIGITAL LITERACY AND ETHICAL RESPONSIBILITY FOR THE RESILIENCE COMMUNITY

2024 PROCEEDING

12. FATWA DIGITAL: PENGGUNAAN APLIKASI CHATGPT DALAM MEMPERKASAKAN FATWA DARI PERSPEKTIF MAQASID SYARIAH

2024 PROCEEDING

13. DISASTERPREP: DISASTER PREPAREDNESS AND RESILIENCE THROUGH A MOBILE EDUTAINMENT

2024 PROCEEDING

14. INTEROPERABILITY CHALLENGES AMONG CERTIFICATION AUTHORITIES IN MALAYSIA: AN IN-DEPTH ANALYSIS

2024 PROCEEDING

15. ASSESSING FEATURES FOR MALAYSIAN UNIVERSITIES EXPERT DIRECTORY

2024 PROCEEDING

16. ARABIC EXAM QUESTION GENERATION: AN NLP AND CORPUS-DRIVEN APPROACH

2024 PROCEEDING

17. CRYPTOLEARN: AI-DRIVEN ADAPTIVE CRYPTOGRAPHY LEARNING

2024 PROCEEDING

18. SECURE CYBERCITIZENSHIP (SET): A GAMIFICATION LEARNING TOOL FOR CYBERSECURITY AWARENESS

2023 PROCEEDING

19. CERTIFICATE AUTHORITY CAPACITY AND DIGITAL SIGNATURE MARKET DEMAND IN PROMOTING INTEROPERABILITY IN MALAYSIA.

2023 PROCEEDING

20. ENHANCING CYBER-ATTACKS AWARENESS VIA MOBILE GAMIFICATION TECHNIQUES

2022 JOURNAL

21. COMPUTING II

2021 BOOK

22. CONCEPTUAL FRAMEWORK OF DYNAMIC SCRUM MODEL AND KNOWLEDGE MANAGEMENT FOR SOFTWARE PRODUCT MANAGEMENT

2019 JOURNAL

23. ADAB: DIGITAL CITIZEN, SECURITY AWARENESS AND MISUE OF SOCIAL MEDIA

2019 CHAPTER IN BOOK

24. MOBILE APPLICATION DESIGN FOR PROTECTING THE DATA IN CLOUD USING ENHANCED TECHNIQUE OF ENCRYPTION

2018 JOURNAL

25. AN INVESTIGATION ON JAWI CAPTCHA BASED SECURITY FOR LOGIN AUTHENTICATION AND AUTHORIZATION: IS IT AN ALTERNATIVE SOLUTION?

2017 PROCEEDING

26. SUPPORTING ELEARNING THROUGH CENTRALIZED INTEGRATED PORTAL POSTGRADUATE SYSTEM (IPPS)

2017 PROCEEDING

27. E-MENTOR: MOBILE APPLICATION FOR MENTOR MENTEE MANAGEMENT

2017 PROCEEDING

28. E-MENTOR: MOBILE APPLICATION FOR TRACKING STUDENT'S PERFORMANCE

2017 CHAPTER IN BOOK

29. A SURVEY ON INFORMATION COMMUNICATION TECHNOLOGY (ICT) COURSE IN USIM FROM STUDENT'S PERSPECTIVE

2017 CHAPTER IN BOOK

30. I-ARMS: SECURED WEB-BASED FOR INTEGRATED ACADEMIC AND RESEARCH MANAGEMENT SYSTEM

2016 CHAPTER IN BOOK

31. E-LEARNING TOOLS USING GOALS FOR NETWORK AND MANAGEMENT INFORMATION SYSTEM COURSE AND ITS CHALLENGES IN USIM

2015 PROCEEDING

32. A PROPOSED SYSTEM CONCEPT ON ENHANCING THE ENCRYPTION AND DECRYPTION METHOD FOR CLOUD COMPUTING

2015 PROCEEDING

33. ESTIMATION OF THE REGULARISATION PARAMETER IN HUBER-MRF FOR IMAGE RESOLUTION ENHANCEMENT

2013 PROCEEDING

34. SINGLE-FRAME SIGNAL RECOVERY USING A SIMILARITY-PRIOR

2013 CHAPTER IN BOOK

35. SINGLE-FRAME SIGNAL RECOVERY USING A SIMILARITY-PRIOR BASED ON PEARSON TYPE VII MRF

2012 PROCEEDING

36. MULTI-TASK SIGNAL RECOVERY BY HIGHER LEVEL HYPERPARAMETER SHARING

2012 PROCEEDING

37. SINGLE FRAME IMAGE RECOVERY FOR SUPER RESOLUTION WITH PARAMETER ESTIMATION OF PEARSON

2011 JOURNAL

38. NON-LINEAR IMAGE RECOVERY FROM A SINGLE FRAME SUPER RESOLUTION USING PEARSON TYPE VII DENSITY

2011 CHAPTER IN BOOK

39. NON-LINEAR IMAGE RECOVERY FROM A SINGLE FRAME SUPER RESOLUTION USING PEARSON TYPE VII DENSITY

2010 PROCEEDING

40. SINGLE-FRAME IMAGE SUPERRESOLUTION USING A PEARSON TYPE VII MRF

2010 PROCEEDING

41. WORKING WITH WINDOWS XP, CONNECTING TO THE WORLD WIDE WEB, MS WORD 2003, MS POWERPOINT 2003, MS EXCEL 2003

2010 CHAPTER IN BOOK

CONSULTATION/ADULATION

1. PENSIJILAN PROFESIONAL (KPT-PACE) - EMPOWERING GRADUATES WITH POWER BI

2023 NATIONAL KEMENTERIAN PENGAJIAN TINGGI

2. PENSIJILAN PROFESIONAL EC-COUNCIL CERTIFIED NETWORK DEFENDER

2022 NATIONAL KEMENTERIAN PENGAJIAN TINGGI (JABATAN PENDIDIKAN TINGGI)

3. PENSIJILAN PROFESIONAL GLOBAL ACE PENETRATION TESTER

2022 NATIONAL KEMENTERIAN PENGAJIAN TINGGI

4. PERUNDINGAN PEMBANGUNAN SISTEM

2019 NATIONAL KIPLEPAY SDN BHD

5. PENGGUBAL MODUL DAN TENAGA PENGAJAR KURSUS IR 4.0

2019 NATIONAL KEMENTERIAN PENDIDIKAN MALAYSIA (KPM)

AWARDS/RECOGNITION

1. PENGHARGAAN STAF CONTOH BULANAN JANUARI 2025 BAGI FAKULTI SAINS DAN TEKNOLOGI (FST)

2025 UNIVERSITY

2. ANUGERAH PENULISAN POPULAR SEMPENA HAFLUFAST 2025

2025

UNIVERSITY

3. ANUGERAH PEMFAILAN HARTA INTELEK SEMPENA HAFLUFAST 2025

2025

UNIVERSITY

4. PINGAT PERKHIDMATAN CEMERLANG 2024 BAGI MAJLIS ANUGERAH KECEMERLANGAN DAN INOVASI USIM 2025

2025

UNIVERSITY

5. PINGAT PERKHIDMATAN CEMERLANG TAHUN 2024 BAGI MAJLIS APRESIASI KECEMERLANGAN TAHUN 2025

2025

NATIONAL