



**PROF. MADYA TS. DR.
ZULKIFLY BIN MOHD
ZAKI**

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 86435

E-mail:

zulkifly@usim.edu.my

Faculty: Fakulti Sains
Dan Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 0,
Ongoing: 0

AREAS OF EXPERTISE

Software Design And Architecture

Mobile Computing

Business Information System (including Enterprise Systems, Business Process Management And Management Information System)

ACADEMIC QUALIFICATION

PhD in Teknologi Maklumat (2012)

Master in Teknologi Maklumat (2005)

Bachelor in Pengajian Perniagaan (2000)

Diploma in Pengajian Perniagaan (1997)

RESEARCH

1. DESIGNING TIERED ARTIFICIAL INTELLIGENCE (AI) TRAINING MODULES FOR ORGANISATIONAL MANAGEMENT LEVELS: A NEEDS-DRIVEN, ROLE-BASED FRAMEWORK

2026

GERAN PENYELIDIKAN INDUSTRI

ON GOING

MAIN RESEARCHER

2. EXPLORING THE USE OF DIGITAL CLINIC APPOINTMENT MANAGEMENT SYSTEM FOR OLDER ADULTS IN PUSAT AKTIVITI WARGA EMAS (PAWE) IN NEGERI SEMBILAN: A QUALITATIVE STUDY

2025

GERAN PENYELIDIKAN INDUSTRI

ON GOING

CO-RESEARCHER

3. KERANGKA KERJA DOKUMENTASI KEABSAHAN SANAD BACAAN QURAN DALAM KONTEKS PERLAKSANAAN DI MALAYSIA

2024

GERAN PENYELIDIKAN USIM-INDUSTRI

ON GOING

CO-

RESEARCHER

**4. DEVELOPMENT AND INNOVATION OF E-IFR?D
COURSEWARE FOR TEACHING AND LEARNING OF QIR????T
STUDIES**

2021 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

**5. PEMBINAAN MODEL IDOC-FORENSICS (KOMBINASI AL-
QARINAH DENGAN FORENSIK DOKUMEN DIGITAL) KE ARAH
PENYELESAIAN KES-KES KEHAKIMAN DI MAHKAMAH
SYARIAH MALAYSIA**

2019 GERAN KPT COMPLETED CO-RESEARCHER

RESEARCH

6. KIPLE FRAUD MANAGEMENT SYSTEM

2019 PROJEK REVOLUSI INDUSTRI 4.0 COMPLETED CO-RESEARCHER

7. "INFORMER ON SITE" DISASTER REPORTING SYSTEM AND MOBILE APPLICATION

2018 GERAN PEMBANGUNAN INOVASI (GPI) - TIDAK AKTIF COMPLETED CO-RESEARCHER

8. THE DESIGN AND EVALUATION OF QURAN MEMORIZATION TOOL BASED ON VARK LEARNING STYLE TO ENHANCE MEMORY RETENTION

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

9. A NEW MODEL FOR CONTENT UNDERSTANDING AND KNOWLEDGE DISSEMINATION OF THE QURAN USING INTELLIGENT DATA MODEL

2016 GERAN KPT COMPLETED CO-RESEARCHER

10. INTELLIREHAB - INTELLIGENT MEDICAL SYSTEM WITH CUSTOMISED EXERCISES FOR PERSONALIZED HOME TELEREHABILITATION

2016 GERAN ANTARABANGSA COMPLETED CO-RESEARCHER

11. SEMIOTICS ICON:VISUAL INTERPRETOR FOR THE MEANING OF QURANIC VERSES

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED CO-RESEARCHER

12. THE DESIGN AND EVALUATION OF AN INTERACTIVE QIRAAT MOBILE APPLICATION

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED MAIN RESEARCHER

13. AN EMOTION MODEL FOR QURANIC THERAPY ON BRAINWAVE PATTERNS

2013 GERAN KPT COMPLETED CO-RESEARCHER

14. A NEW TOPOLOGY SEGMENTATION ALGORITHM FOR X-RAY IMAGES

2013 GERAN KPT COMPLETED CO-RESEARCHER

15. AUTOMATED DETECTION AND CLASSIFICATION OF TOOTH DEVELOPMENT STAGES (TDS) IMAGES USING TOPOLOGY SEGMENTATION AND NEURAL NETWORK

2013 GERAN PENYELIDIKAN KOMPETTIF BERPASUKAN COMPLETED CO-RESEARCHER

16. THE DESIGN, EVALUATION AND THE APPLICATION OF ELECTRONIC LABORATORY NOTEBOOK FOR PROTROMIC COMMUNITY

2013 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

PUBLICATION

1. USING 5WH COMPETENCY QUESTIONS FOR VALIDATING INFORMATION RETRIEVAL FROM AL-QURAN: A METHODOLOGICAL APPROACH

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2025 JOURNAL OTHER DATABASE CO-AUTHOR

2. SEMIOTIC ICON DESIGN FRAMEWORK FOR RECITING QURAN (SIDFQ)

JOURNAL OF ADVANCED RESEARCH IN COMPUTING AND APPLICATIONS (ARCA)

2025 JOURNAL MYCITE CORRESPONDING AUTHOR

3. ENHANCING QURAN MEMORIZATION THROUGH QUIZ-BASED MOBILE APPLICATIONS: A COMPARATIVE ANALYSIS OF RETAIN QURAN AND CINTA QURAN

10TH INTERNATIONAL CONFERENCE ON QURAN AS THE FOUNDATION OF CIVILIZATION (SWAT 2025)

2025 PROCEEDING OTHER DATABASE CO-AUTHOR

4. UNSUPERVISED REPRESENTATION LEARNING USING WASSERSTEIN GENERATIVE ADVERSARIAL NETWORK

INTERNATIONAL JOURNAL OF COMPUTING

2024 JOURNAL SCOPUS CO-AUTHOR

5. PENGENALAN TERHADAP SISTEM PEMANTAUAN USAHAWAN

PANDUAN AMALAN UNTUK PEMERKASAAN INDUSTRI MAKANAN MIKRO

2024 CHAPTER IN BOOK MAIN AUTHOR

6. E-IFRAD COURSEWARE: ANALISIS KEPERLUAN PEMBANGUNAN APLIKASI DALAM PENGAJIAN QIRA'AT DI USIM

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS) 2022

2022 PROCEEDING NON-INDEX MAIN AUTHOR

7. USER INTERFACE DESIGNS OF AN EDUCATIONAL MOBILE APPLICATION: A STUDY OF QIRAAT TEACHING AND LEARNING

ADVANCES IN HUMAN-COMPUTER INTERACTION

2021 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

8. DEVELOPMENT AND ALPHA TESTING OF EZHIFZ APPLICATION: AL-QURAN MEMORIZATION TOOL

ADVANCES IN HUMAN-COMPUTER INTERACTION

2021 JOURNAL ERA CORRESPONDING AUTHOR

9. A REVIEW ON THE MAIN LEVELS OF ONTOLOGY AND A PROPOSED LOWER LEVEL FOR THE QURANIC ONTOLOGY

40TH WORLD CONFERENCE ON APPLIED SCIENCE, ENGINEERING AND TECHNOLOGY (WCASET-2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

10. A CONCEPTUAL MODEL FOR THE E-COMMERCE APPLICATION RECOMMENDATION FRAMEWORK USING EXPLORATORY SEARCH

JOURNAL OF COMPUTER SCIENCE

2020 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

11. DATASET CREATION FROM MULTILINGUAL DATA OF SOCIAL MEDIA: CHALLENGES AND CONSEQUENCES

6TH IEEE INTERNATIONAL WOMEN IN ENGINEERING (WIE) CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING 2020 (IEEE WIECON-ECE 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

12. THE DESIGN OF QURAN MEMORIZATION TOOL USING LOW-FIDELITY PROTOTYPE

18TH INTERNATIONAL CONFERENCE ON INTELLIGENT SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES (SOMET 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

13. THE DESIGN OF QURAN MEMORIZATION TOOL USING LOW-FIDELITY PROTOTYPE

ADVANCING TECHNOLOGY INDUSTRIALIZATION THROUGH INTELLIGENT SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES

2019 CHAPTER IN BOOK CO-AUTHOR & CO-EDITOR

PUBLICATION

14. A SYSTEMATIC REVIEW ON SEMANTIC-BASED ONTOLOGY FOR QURANIC KNOWLEDGE

INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

15. FORMATIVE EVALUATION OF AN EDUCATIONAL MOBILE APPLICATION: AN INTERACTIVE MYQIRAAT APPLICATION

INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

16. A HYBRID APPROACH TO IMPROVE RECOMMENDATION SYSTEM IN E-TOURISM

SPRINGER INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES IN DATA MINING AND INFORMATION SECURITY (IEMIS 2018)

2018 PROCEEDING NON-INDEX CO-AUTHOR

17. MULTIMODAL SENTIMENT ANALYSIS: A STUDY TOWARDS FUTURE DIRECTIONS

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS CO-AUTHOR

18. THE DESIGN EVALUATION OF AN INTERACTIVE QIRAAT MOBILE APPLICATION

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS CO-AUTHOR

19. AN ADAPTIVE THRESHOLDING METHOD FOR SEGMENTING DENTAL X-RAY IMAGES

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2017 JOURNAL SCOPUS CO-AUTHOR

20. THE QURANIC PHILOSOPHY ON SUPERIORITY OF AUDIO SENSE AGAINST VISUAL SENSE BASED ON THE BOOK OF EXEGESIS AND SCIENCE REPORTS

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS CO-AUTHOR

21. AN OVERVIEW OF MULTIMODAL SENTIMENT ANALYSIS RESEARCH: OPPORTUNITIES AND DIFFICULTIES

IEEE INTERNATIONAL CONFERENCE ON IMAGING, VISION & PATTERN RECOGNITION (ICIVPR)

2017 PROCEEDING NON-INDEX CO-AUTHOR

22. LEARNERS? EVALUATION OF THE USABILITY AND DESIGN FEATURES OF CHINESE AS A FOREIGN LANGUAGE E-LEARNING WEBSITES

INTERNATIONAL JOURNAL OF LEARNING AND TEACHING

2016 JOURNAL SCI CO-AUTHOR

23. MYQIRAAT: AN INTERACTIVE QIRAAT MOBILE APPLICATION

4TH INTERNATIONAL CONFERENCE ON USER SCIENCE AND ENGINEERING

2016 PROCEEDING NON-INDEX CO-AUTHOR

24. MYEMA-ENTREPRENEUR MONITORING APPS

GROWING CREATIVE AND INNOVATIVE SOLUTIONS

2016 CHAPTER IN BOOK CO-AUTHOR

25. LEARNERS' EVALUATION OF THE USABILITY AND DESIGN FEATURES OF CHINESE AS A FOREIGN LANGUAGE E-LEARNING WEBSITES

INTERNATIONAL CONFERENCE ON FRONTIERS EDUCATIONAL TECHNOLOGIES (ICFET 2015)

2015 PROCEEDING NON-INDEX CO-AUTHOR

26. CREATING, PROTECTING AND SHARING OF SEMANTICALLY-ENABLED USER-ORIENTATED ELECTRONIC LABORATORY NOTEBOOK IN A SERVICE ENVIRONMENT

THE SEVENTH INTERNATIONAL CONFERENCE ON FUTURE COMPUTATIONAL TECHNOLOGIES AND APPLICATIONS, FUTURE COMPUTING

2015 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

27. IMPORTANCE OF THRESHOLD VALUE FOR TEETH SEGMENTATION IN DENTAL AGE ASSESSMENT

POSTGRADUATE COLLOQUIUM 2014

2014 PROCEEDING NON-INDEX CO-AUTHOR

28. SOBEL AND CANNY EDGES SEGMENTATIONS FOR THE DENTAL AGE ASSESSMENT

INTERNATIONAL CONFERENCE ON COMPUTER ASSISTED SYSTEM IN HEALTH (CASH 2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

29. IMPORTANCE OF THRESHOLD VALUE FOR TEETH SEGMENTATION DENTAL AGE ASSESSMENT

SCIENTIFIC AND TECHNICAL CONFERENCE @APPLIED MATHEMATICS AND INFORMATION SECURITY

2014 PROCEEDING NON-INDEX CO-AUTHOR

30. REGION OF ADAPTIVE THRESHOLD SEGMENTATION BETWEEN MEAN, MEDIAN AND OTSU THRESHOLD FOR DENTAL AGE ASSESSMENT

2014 INTERNATIONAL CONFERENCE ON COMPUTER, COMMUNICATIONS, AND CONTROL TECHNOLOGY (I4CT),

2014 PROCEEDING NON-INDEX CO-AUTHOR

31. PROTECTING AND SHARING OF SEMANTICALLY ENABLED, USER-ORIENTATED ELECTRONIC LABORATORY NOTEBOOK FOCUSING ON A CASE STUDY IN THE E-SCIENCE DOMAIN

THE SIXTH INTERNATIONAL CONFERENCE ON FUTURE COMPUTATIONAL TECHNOLOGIES AND APPLICATIONS

2014 PROCEEDING NON-INDEX CO-AUTHOR

32. REVIEW ON THE PERCEPTIONS OF IT SECURITY PRACTITIONERS IN THE MIDDLE EAST COUNTRIES ON CLOUD COMPUTING

INTERNATIONAL CONFERENCE ON COMPUTING AND BUSINESS MANAGEMENT

2014 PROCEEDING NON-INDEX CO-AUTHOR & CO-EDITOR

33. ARCHITECTURE DESIGN OF A USER-ORIENTATED ELECTRONIC LABORATORY NOTEBOOK: A CASE STUDY WITHIN AN ATMOSPHERIC CHEMISTRY COMMUNITY

THE INTERNATIONAL JOURNAL OF GRID COMPUTING AND ESCIENCE

2013 JOURNAL WOS MAIN AUTHOR

34. A USER-ORIENTATED ELECTRONIC LABORATORY NOTEBOOK FOR RETRIEVAL AND EXTRACTION OF PROVENANCE INFORMATION FOR EUROCHAMP-2

IEEE 7TH INTERNATIONAL CONFERENCE ON E-SCIENCE

2011 PROCEEDING NON-INDEX MAIN AUTHOR

35. INLINE PROVENANCE NODE NAVIGATOR AND ITS APPLICATION IN EUROCHAMP-2

UK E-SCIENCE ALL HANDS MEETING 2011

2011 PROCEEDING NON-INDEX MAIN AUTHOR

36. DEVELOPING A SUSTAINABLE ELECTRONIC LABORATORY NOTEBOOK FOR EUROCHAMP-2

UK E-SCIENCE ALL HANDS MEETING 2010

2010 PROCEEDING NON-INDEX CO-AUTHOR

CONSULTATION

1. DATA ANALITIK GOOGLE LOOKER STUDIO DAN MICROSOFT POWER BI

DRIVE ZENITH SDN BHD

2024 NATIONAL

2. DATA ANALITIK GOOGLE STUDIO DAN MICRSOFT POWER BI

FASTRACK SYNERGY SDN BHD

2023 NATIONAL

3. PASUKAN PERUNDING SISTEM KEDATANGAN PELAJAR USIM

USIM

2023 UNIVERSITY

4. MEREKABENTUK DAN MEMBANGUNKAN SISTEM MAKLUMAT

FASTRACK SYNERGY SDN BHD

2022 NATIONAL

5. PROGRAM PEMERKASAAN USAHAWAN MAKANAN MIKRO B40 HOMEBASED DAN STREETFOOD MELALUI LATIHAN DAN PEMANTAUAN ATAS TALIAN

YAYASAN HASANAH

2021 NATIONAL

6. PERUNDINGAN

INDKOM ENGINEERING SDN BHD

2020 NATIONAL

7. PROGRAM PEMERKASAAN USAHAWAN MIKRO IBU TUNGGAL B40 MELALUI LATIHAN DAN PEMANTAUAN ATAS TALIAN

YAYASAN HASANAH

2020 NATIONAL

8. PERUNDINGAN - KIPLEPAY SDN BHD

KIPLEPAY SDN BHD

2019 INTERNATIONAL

9. GRADUATE EMPLOYABILITY PROGRAM

MINISTRY OF EDUCATION

2014 UNIVERSITY

10. PENULIS MODUL - PROGRAM KEBOLEHPASARAN GRADUAN

KEMENTERIAN PENDIDIKAN MALAYSIA

2014 UNIVERSITY

11. FACILITATOR BENGKEL "MASTER TRAINERS SERIES" PROGRAM MIBPC@USIM 2012-2013

USIM

2013 UNIVERSITY

12. RESEARCH CONSULTATION

UNIVERSITY OF LEEDS

2013 INTERNATIONAL

AWARDS/RECOGNITION

1. ANUGERAH PENYELIA TERBILANG

2025 UNIVERSITY

2. ANUGERAH PERUNDINGAN

2025 UNIVERSITY

3. DUITAPP: QR-BASED SCHOOL MANAGEMENT SYSTEM

JOHOR INTERNATIONAL INNOVATION, INVENTION COMPETITION AND SYMPOSIUM 2025 (JIICaS 2025)

2025 ANTARABANGSA SILVER

4. E-IFRAD COURSEWARE AS A TEACHING AID MATERIAL (TAM) IN QIRAAT STUDIES

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

5. PANGKALAN DATA SANAD AL-QURAN DI MALAYSIA

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

6. PANGKALAN DATA SANAD AL-QURAN DI MALAYSIA

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

7. A QUALITATIVE STUDY ON DESIGNING AND EVALUATING CARECONNECT- AN OLDER ADULT APPOINTMENT SYSTEM

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

8. DUITAPP: QR-BASED MANAGEMENT SYSTEM

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

9. ANUGERAH PERKHIDMATAN SETIA

2023 UNIVERSITY

10. INTEGRATED ENTREPRENEURSHIP TRAINING, MENTORING AND MONITORING SYSTEM

INTERNATIONAL CREATIVE INNOVATION IDEA COMPETITION (ICIIC 2023)

2023 ANTARABANGSA GOLD

11. SILVER AWARD

2022 NATIONAL

12. INTEGRATED ENTREPRENEURSHIP TRAINING, MENTORING AND MONITORING SYSTEM

CARNIVAL OF RESEARCH AND INNOVATION (CRI 2022)

2022 KEBANGSAAN SILVER

13. GOLD AWARD

2021 NATIONAL

14. PROGRAM PEMERKASAAN USAHAWAN MIKRO IBU TUNGGAL B40 MELALUI LATIHAN DAN PEMANTAUAN ATAS TALIAN

CARNIVAL OF RESEARCH AND INNOVATION (CRI 2021)

2021 KEBANGSAAN GOLD

AWARDS/RECOGNITION

15. SILVER AWARD IN INNOVATION COMPETITION FOR INTERNATIONAL SUMMIT OF INNOVATION & DESIGN EXPOSITION 2019

2019 NATIONAL

16. GOLD AWARD - DESIGN

2019 INTERNATIONAL

17. BEST AWARD DESIGN CATEGORY (KASTURI)

2019 INTERNATIONAL

18. SEMIOCONQRAN

INTERNATIONAL SUMMIT OF INNOVATION & DESIGN EXPOSITION 2019 (InSIDE 2019)

2019 ANTARABANGSA SILVER

19. NATURAL DISASTER REPORTING AND EARLY WARNING SYSTEM APPS

INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTIONS BY INSTITUTIONS OF HIGHER LEARNING (PECIPTA'19)

2019 ANTARABANGSA SILVER

20. ANUGERAH STAF CONTOH BULAN OGOS 2018

2018 UNIVERSITY

21. ANUGERAH PERKHIDMATAN CEMERLANG

2017 UNIVERSITY

22. ANUGERAH PENYELIDIKAN

2017 UNIVERSITY

23. GOLD AWARD

2017 INTERNATIONAL

24. MY QIRAAT

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2017 (MIIEX 2017)

2017 UNIVERSITI GOLD

25. DESIGN CATEGORY-MY QIRAAT

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2017 (MIIEX 2017)

2017 UNIVERSITI

26. MY QIRAAT

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2017(MIIEX 2017)

2017 KEBANGSAAN

27. GOLD CATEGORY A: PROFESSIONAL EDUCATION AND SOCIAL SCIENCES

2016 INTERNATIONAL

28. MYEMA ENTREPRENEUR MONITORING APPS

INTERNATIONAL INVENTION & INNOVATIVE COMPETITION (INIIC SERIES 1/2016)

2016 ANTARABANGSA GOLD

AWARDS/RECOGNITION

29. ANUGERAH NAIB CANSOLOR

2015

UNIVERSITY