Profile Image

PROF. MADYA DR. ROSE IRNAWATY BINTI IBRAHIM

PENSYARAH UNIVERSITI DS14

CONTACT

PHONE
0679886552

E-MAIL
rose.irnawaty@usim.edu.my

FACULTY
Fakulti Sains Dan Teknologi

SUPERVISION

	COMPLETED	ONGOING
PhD	3	1
Master	3	1

AREAS OF EXPERTISE

Actuarial Mathematics | Mortality Trends | Social Security

ACADEMIC QUALIFICATION

2009 **PhD** - Sains Aktuari

2001 **Master** - Sains Aktuari

2001 **Bachelor** - Computational & Industrial

1998 **Diploma** - Sains Matematik

RESEARCH

1. GRADUATION OF MALAYSIAN MORTALITY RATES USING AN EXPONENTIAL ADAPTIVE PENALISED SPLINE
2023 | GERAN PENYELIDIKAN USIM RACER | ON GOING | CO-RESEARCHER

2. A FORMULATION OF NEW COLA-BASED PENSION SCHEME MODEL FOR ELDERLY SOCIETY USING ADJUSTED ANNUITY FACTOR
2020 | GERAN KPT | ON GOING | CO-RESEARCHER

3. FORMULATION OF LONG TERM PENSION SUSTAINABILITY MODEL FOLLOWING POPULATION AGEING IN MALAYSIA
2020 | GERAN KPT | COMPLETED | MAIN RESEARCHER

4. FORMULATION OF MYOCARDIAL INFARCTION MODEL BASED ON COX PROPORTIONAL HAZARD APPROACH AMONG B40 SMOKERS.
2019 | GERAN KPT | COMPLETED | CO-RESEARCHER

5. 3D-RECONSTRUCTION OF HISTORICAL FRAGMENTS USIN ADVANCED MATHEMATICAL APPROACH
2019 | GERAN SEPADAN AGENSI KERAJAAN | COMPLETED | CO-RESEARCHER

RESEARCH

6. THE APPLICATION OF SEVERAL BAYESIAN ZERO-INFLATED REGRESSION MODELS TO MALAYSIAN MOTOR VEHICLE INSURANCE & TAKAFUL CLAIMS FREQUENCY DATA

2018 | GERAN PENYELIDIKAN USIM | ON GOING | CO-RESEARCHER

7. INTELLIREHAB - INTELLIGENT MEDICAL SYSTEM WITH CUSTOMISED EXCERCISES FOR PERSONALIZED HOME TELEREHABILITATION

2016 | GERAN ANTARABANGSA | COMPLETED | CO-RESEARCHER

8. SUDDEN DEATH MODELLING FOLLOWING MYOCARDIAL INFARCTION AND STROKE IN MALAYSIA

2015 | GERAN KPT | COMPLETED | CO-RESEARCHER

9. FORMULATING A NEW LONG TERM CARE MODEL FOR AGEING SOCIETY IN MALAYSIA

2015 | GERAN KPT | COMPLETED | CO-RESEARCHER

10. MODIFIED ADOMIAN DECOMPOSITION METHOD FOR NONLINEAR FREDHOLM-VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS

2015 | GERAN PENYELIDIKAN PENTADBIR | COMPLETED | CO-RESEARCHER

11. FORECASTING THE MORTALITY RATES ELDERLY IN MALAYSIA

2015 | GERAN PENYELIDIKAN PENTADBIR | COMPLETED | MAIN RESEARCHER

12. MODEL BERSEPADU PENGURUSAN SAUDARA BARU DI MALAYSIA

2013 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

13. MATHEMATICAL MODELING AND COMPUTER IMPLEMENTATION OF PENSION COSTS PROJECTION

2011 | GERAN KPT | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. MORTALITY TRENDS AND ITS IMPACT ON THE PENSION LIABILITIES

JOURNAL OF ARTIFICIAL INTELLIGENCE AND TECHNOLOGY

2025 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

2. MODELING EARTHQUAKE BOND PRICES WITH CORRELATED DUAL TRIGGER INDICES AND THE APPROXIMATE SOLUTION USING THE MONTE CARLO ALGORITHM

AIMS MATHEMATICS

2025 | JOURNAL | OTHER DATABASE | CO-AUTHOR

3. MODELING SHORT TERM INTEREST RATES USING THE VASICEK AND COX?INGERSOLL?ROSS MODELS

MATHEMATICAL MODELING AND COMPUTING

2025 | JOURNAL | OTHER DATABASE | CO-AUTHOR

4. MODELLING MALAYSIAN MORTALITY IMPROVEMENT USING A HYBRID LOGISTIC SPLINE

MALAYSIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

2025 | JOURNAL | OTHER DATABASE | CO-AUTHOR

PUBLICATION

5. IMPACT OF AGEING POPULATION TOWARDS PENSION EXPENDITURE IN MALAYSIA: AN ARDL APPROACH

MALAYSIAN JOURNAL OF COMPUTING

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

6. BRIDGING THE GAP BETWEEN THE TRADITION OF THE PROPHET IN ZAKAT PAYMENT AND THE CURRENT PRACTICE, THROUGH MODERN MEASUREMENT

JOURNAL OF ISLAMIC ACCOUNTING AND BUSINESS RESEARCH

2024 JOURNAL SCOPUS AND ERA CO-AUTHOR

7. IDENTIFYING APPROPRIATE ACTUARIAL INDICATORS AFFECTING LONG- TERM PENSION EXPENDITURES IN MALAYSIA

AIP CONFERENCE PROCEEDINGS

2024 JOURNAL SCOPUS CO-AUTHOR

8. INVESTIGATING THE MALAYSIAN MORTALITY RATE DURING COVID-19

DISCOVERING MATHEMATICS

2024 JOURNAL MYCITE CORRESPONDING AUTHOR

9. ANALYSIS OF CHANGES IN TOTAL ACTUARIAL LIABILITIES USING PROJECTED UNIT CREDIT METHOD

JOURNAL OF QUALITY MEASUREMENT AND ANALYSIS

2024 JOURNAL OTHER DATABASE MAIN AUTHOR

10. EARTHQUAKE BOND PRICING MODEL INVOLVING THE INCONSTANT EVENT INTENSITY AND MAXIMUM STRENGTH

MATHEMATICS

2024 JOURNAL OTHER DATABASE CO-AUTHOR

11. TRENDS IN PRESENTATION, MANAGEMENT, AND SURVIVAL OF WOMEN WITH BREAST CANCER IN A MULTIETHNIC, MIDDLE-INCOME ASIAN SETTING

JCO GLOBAL ONCOLOGY

2024 JOURNAL OTHER DATABASE CO-AUTHOR

12. ESTIMATING FLOOD CATASTROPHE BOND PRICES USING APPROXIMATION METHOD OF THE LOSS AGGREGATE DISTRIBUTION: EVIDENCE FROM INDONESIA

DECISION SCIENCE LETTERS

2023 JOURNAL SCOPUS CO-AUTHOR

13. HOW TO PRICE CATASTROPHE BONDS FOR SUSTAINABLE EARTHQUAKE FUNDING? A SYSTEMATIC REVIEW OF THE PRICING FRAMEWORK

SUSTAINABILITY

2023 JOURNAL ERA CO-AUTHOR

14. DETERMINANTS OF PERCEPTIONS TOWARDS LIFE AND HEALTH INSURANCE PLANS AMONG STUDENTS OF FACULTY OF SCIENCE AND TECHNOLOGY, UNIVERSITI SAINS ISLAM MALAYSIA,

DISCOVERING MATHEMATICS

2023 JOURNAL OTHER DATABASE CO-AUTHOR

PUBLICATION

15. AGRICULTURAL NISAB MEASUREMENT FOR ZAKAT ASSESSMENT

INTERNATIONAL JOURNAL OF ZAKAT AND ISLAMIC PHILANTHROPY

2023 JOURNAL OTHER DATABASE CO-AUTHOR

16. ANALYSIS OF MALAYSIAN MORTALITY RATES BY SPECIFIC ETHNICS, AGE GROUPS AND GENDER BEFORE AND DURING COVID-19 PANDEMIC

JOURNAL OF QUALITY MEASUREMENT AND ANALYSIS

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

17. FUNDING FOR LONG-TERM CARE COST: AN ANALYSIS AMONG MALAYSIAN ELDERLIES IN SELANGOR

MALAYSIAN JOURNAL OF MEDICINE AND HEALTH SCIENCES

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

18. IMPAK PANDEMIK COVID-19 TERHADAP TABUNG PERSARAAN RAKYAT MALAYSIA DARI PERSPEKTIF SAINS AKTUARI

NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

2022 CHAPTER IN BOOK MAIN AUTHOR

19. BAB 8 INDUSTRI INSURANS DAN TAKAFUL: KESAN DAN IMPAK DI ERA PANDEMIK COVID-19

NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

2022 CHAPTER IN BOOK CO-AUTHOR

20. INVESTIGATING THE SENSITIVITY EFFECT OF ACTUARIAL ASSUMPTIONS ON PENSION LIABILITIES IN MALAYSIA

BAGHDAD SCIENCE JOURNAL

2021 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

21. LONG-TERM CARE FOR REHABILITATION IN MALAYSIA

2021 BOOK MAIN AUTHOR

22. THE INTERNAL FACTORS THAT EFFECTS THE EXECUTION OF DOMESTIC AND FOREIGN BANKS IN MALAYSIA

APPLIED SCIENCE AND TECHNOLOGY: INFORMATION SECURITY & ASSURANCE, FINANCIAL MATHEMATICS AND ACTUARIAL SCIENCE & RISK MANAGEMENT

2021 CHAPTER IN BOOK CO-AUTHOR

23. ANALYSIS OF MORTALITY IMPROVEMENT ON THE PENSION COST DUE TO AGING POPULATION

MATEMATIKA: MALAYSIAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS

2020 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

24. NILAI SEJAGAT DALAM KURSUS KOKURIKULUM

KOKURIKULUM DAN PEMBANGUNAN MAHASISWA HOLISTIK

2020 CHAPTER IN BOOK CO-AUTHOR

25. MORTALITY TRENDS OF MALE ELDERLY IN MALAYSIA: COMPARISON BETWEEN LEE-CARTER MODEL AND HELIGMAN-POLLARD MODEL

JOURNAL OF MECHANICS OF CONTINUA AND MATHEMATICAL SCIENCES

2019 JOURNAL ISI MAIN AUTHOR

PUBLICATION

26. IMPACT OF AN AGEING POPULATION ON PENSION EXPENDITURE USING AUTOREGRESSIVE DISTRIBUTED LAG MODEL

ASM SCIENCE JOURNAL

2019 JOURNAL SCOPUS MAIN AUTHOR

27. SAINS AKTUARI: APLIKASI DALAM BIDANG PENCEN

2019 BOOK MAIN AUTHOR

28. BACHOK-HASHAM POLYNOMIALS FOR SOLVING A SPECIAL CLASS OF SINGULAR INTEGRAL EQUATIONS

AIP CONF PROC

2018 JOURNAL WOS CO-AUTHOR

29. PROJECTION ON USE OF PUBLIC LONG-TERM CARE FACILITIES FOR DIFFERENT ETHNICS OF ELDERS IN MALAYSIA

AIP CONF PROC

2018 JOURNAL WOS CO-AUTHOR

30. CHAOS OF DOUBLE DIFFUSIVE CONVECTION IN THE PRESENCE OF FEEDBACK CONTROL STRATEGY

INTERNATIONAL JOURNAL OF APPLIED PHYSICS AND MATHEMATICS

2018 JOURNAL OTHER DATABASE CO-AUTHOR

31. MORTALITY TRENDS OF MALE ELDERLY IN MALAYSIA: COMPARISON BETWEEN LEE-CARTER MODEL AND HELIGMAN-POLLARD MODEL

2ND RECENT TREND IN SCIENCE AND ENGINEERING RESEARCH INTERNATIONAL CONFERENCE

2018 PROCEEDING NON-INDEX MAIN AUTHOR

32. IMPACT OF AN AGEING POPULATION ON PENSION EXPENDITURE IN MALAYSIA

26TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

33. FORECASTING THE MORTALITY RATES OF MALAYSIAN POPULATION USING HELIGMAN-POLLARD MODEL

AIP CONF. PROC

2017 JOURNAL WOS MAIN AUTHOR

34. FORECASTING THE MORTALITY RATES USING LEE-CARTER MODEL AND HELIGMAN-POLLARD MODEL

JOURNAL OF PHYSICS: CONFERENCE SERIES

2017 JOURNAL SCOPUS MAIN AUTHOR

35. COMPOSITE MODEL APPROACH FOR FORECASTING MALAYSIAN IMPORTS OF MACHINERY AND TRANSPORT EQUIPMENTS: A COMPARATIVE STUDY.

FAR EAST JOURNAL OF MATHEMATICAL SCIENCES

2017 JOURNAL SCOPUS CO-AUTHOR

36. ACTUARIAL LIFE TABLES

AN APPLICATION TO ACTUARIAL SCIENCE, RISK MANAGEMENT AND FINANCIAL MATHEMATICS CURRICULUM

2017 CHAPTER IN BOOK CO-AUTHOR

PUBLICATION

37. AGEING POPULATION IN MALAYSIA

AN APPLICATION TO ACTUARIAL SCIENCE, RISK MANAGEMENT AND FINANCIAL MATHEMATICS CURRICULUM

2017 CHAPTER IN BOOK MAIN AUTHOR

38. RETIREMENT & PENSION

AN APPLICATION TO ACTUARIAL SCIENCE, RISK MANAGEMENT AND FINANCIAL MATHEMATICS CURRICULUM

2017 CHAPTER IN BOOK CO-AUTHOR

39. FORECASTING THE MORTALITY RATES OF MALAYSIAN POPULATION USING LEE-CARTER METHOD

AIP CONFERENCE PROCEEDINGS

2016 JOURNAL WOS CO-AUTHOR

40. A ROBUST COMPOSITE MODEL APPROACH FOR FORECASTING MALAYSIAN IMPORTS: A COMPARATIVE STUDY

JOURNAL OF APPLIED SCIENCES

2016 JOURNAL WOS CO-AUTHOR

41. FORECASTING THE MORTALITY RATES OF MALAYSIAN POPULATION USING HELIGMAN-POLLARD MODEL

24TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2016 PROCEEDING NON-INDEX MAIN AUTHOR

42. FEEDBACK CONTROL OF LINEAR TEMPERATURE PROFILE ON RAYLEIGH-B&#65533;NARD-MARANGONI CONVECTION IN FERROFLUIDS

24TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2016 PROCEEDING NON-INDEX CO-AUTHOR

43. BACHOK--HASHAM POLYNOMIALS APPROACH FOR EIGENVALUES PROBLEM OF LOGARITHMIC SINGULAR INTEGRAL EQUATIONS

POSTGRADUATE SEMINAR ON SCIENCE AND TECHNOLOGY (KOSIST?16)

2016 PROCEEDING NON-INDEX CO-AUTHOR

44. REGRESSION MODEL BUILDING AND FORECASTING ON IMPORTS IN MALAYSIA

AUSTRALIAN JOURNAL OF BASIC AND APPLIED SCIENCES

2015 JOURNAL SCOPUS CO-AUTHOR

45. A STUDY ON LONGEVITY FACTOR: THE CASE OF GOVERNMENT PENSIONER IN MALAYSIA

INTERNATIONAL JOURNAL OF BUSINESS AND SOCIETY

2015 JOURNAL SCOPUS MAIN AUTHOR

46. A COMPARISON AMONG TWO COMPOSITE MODELS (WITHOUT REGRESSION PROCESSING) AND (WITH REGRESSION PROCESSING), APPLIED ON MALAYSIAN IMPORTS

APPLIED MATHEMATICAL SCIENCES

2015 JOURNAL SCOPUS CO-AUTHOR

47. REGRESSION ANALYSIS TO FORECAST MALAYSIA&#65533;S IMPORTS OF CRUDE MATERIAL

INTERNATIONAL JOURNAL OF MANAGEMENT AND APPLIED SCIENCE

2015 JOURNAL OTHER DATABASE CO-AUTHOR

PUBLICATION

48. ANALISIS PENTAFSIRAN MUALAF MENURUT ISLAM DAN ENAKMEN PENTADBIRAN AGAMA ISLAM NEGERI DI MALAYSIA

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

49. INDEKS PEGUKURAN PENENTUAN HAD TEMPOH MUALAF DI MALAYSIA

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

50. KEPENTINGAN ILMU PERBANDINGAN AGAMA DALAM MODUL PENGURUSAN MUALAF DI NEGERI SEMBILAN: ANALISIS PERSPEKTIF DA''I DAN MAD''U

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

51. PENERIMAAN PENGGUNAAN ISTILAH MUALAF DALAM KALANGAN MUALAF DI MALAYSIA

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

52. PERSEPSI MUALAF TERHADAP PENGISIAN PENGISLAMAN DAN PROGRAM PEMBANGUNAN MUALAF: KAJIAN DI NEGERI SEMBILAN

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

53. PROSEDUR PENGISLAMAN MUALAF DI NEGERI SEMBILAN: KAJIAN DI PERSATUAN CINA MUSLIM MALAYSIA (MACMA)

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

54. SKIM BANTUAN ZAKAT ASNAF MUALAF: SATU ANALISIS KONTEMPORARI DI MALAYSIA

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

55. SKIM BANTUAN ZAKAT ASNAF MUALAF: SATU KAJIAN KONTEMPORARI DI WILAYAH PERSEKUTUAN

JURNAL PENGURUSAN DAN PENYELIDIKAN FATWA

2015 JOURNAL OTHER DATABASE CO-AUTHOR

56. FORECASTING THE MORTALITY RATES OF MALAYSIAN POPULATION USING LEE-CARTER METHOD

23TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2015 PROCEEDING NON-INDEX CO-AUTHOR

57. REGRESSION ANALYSIS TO FORECAST MALAYSIA�S IMPORTS OF CRUDE MATERIAL

INTERNATIONAL CONFERENCE ON ADVANCES IN BUSINESS MANAGEMENT & INFORMATION TECHNOLOGY

2015 PROCEEDING NON-INDEX CO-AUTHOR

58. "BUTTERFLY EFFECT" IN POROUS B�NARD CONVECTION HEATED FROM BELOW

AIP CONFERENCE PROCEEDINGS

2014 JOURNAL WOS CO-AUTHOR

PUBLICATION

59. NATURAL CONVECTION IN A TRIANGULAR ENCLOSURE FILLED WITH POROUS MEDIA

AIP CONFERENCE PROCEEDINGS

2014 JOURNAL WOS CO-AUTHOR

60. SPECTRUM OF VERY EARLY BREAST CANCER IN A SETTING WITHOUT ORGANISED SCREENING

BRITISH JOURNAL OF CANCER

2014 JOURNAL SCI CO-AUTHOR

61. EMPIRICAL STUDY ON IMPACT OF DEMOGRAPHIC AND ECONOMIC CHANGES ON PENSION COST

AIP CONFERENCE PROCEEDINGS

2014 JOURNAL WOS CO-AUTHOR

62. ANALYSIS OF MORTALITY TRENDS BY SPECIFIC ETHNIC GROUPS AND AGE GROUPS IN MALAYSIA

AIP CONFERENCE PROCEEDINGS

2014 JOURNAL WOS MAIN AUTHOR

63. THE IMPACT ON PENSION LIABILITIES OF MALAYSIAN GOVERNMENT PENSION SCHEME FROM REMARRIAGE DUE TO REMOVAL OF PENSION CLAUSE

AIP CONFERENCE PROCEEDINGS

2014 JOURNAL WOS MAIN AUTHOR

64. THE IMPACT ON PENSION LIABILITIES OF MALAYSIAN GOVERNMENT PENSION SCHEME FROM REMARRIAGE DUE TO REMOVAL OF PENSION CLAUSE

THE 3RD INTERNATIONAL CONFERENCE ON QUANTITATIVE SCIENCES AND ITS APPLICATIONS

2014 PROCEEDING NON-INDEX MAIN AUTHOR

65. MODELING AND FORECASTING THE VOLUMES OF MALAYSIA''S IMPORT

INTERNATIONAL CONFERENCE ON GLOBAL TRENDS IN ACADEMIC RESEARCH

2014 PROCEEDING NON-INDEX CO-AUTHOR

66. DEMOGRAPHIC TRANSITION IN MALAYSIA: THE TRENDS AND ITS IMPLICATIONS

PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK MAIN AUTHOR

67. COMPARISON OF THREE METHODS FOR ESTIMATING COMPLETE LIFE TABLES

AIP CONFERENCE PROCEEDINGS

2013 JOURNAL WOS MAIN AUTHOR

68. IMPACT OF ACTUARIAL ASSUMPTIONS ON PENSION COSTS: A SIMULATION ANALYSIS

AIP CONFERENCE PROCEEDINGS

2013 JOURNAL WOS CO-AUTHOR

69. ESTIMATING A COMPLETE LIFE TABLE USING THE HELIGMAN-POLLARD MODEL, SIX-POINT LAGRANGIAN INTERPOLATION AND KING&#xFFFD;S OSCULATORY INTERPOLATION

INSURANCE AND TAKAFUL JOURNAL

2013 JOURNAL OTHER DATABASE MAIN AUTHOR

PUBLICATION

70. STUDY THE IMPACT ON PENSION LIABILITIES AS THE AGE OF RETIREMENT INCREASES.

INTERNATIONAL JOURNAL OF TRADE, ECONOMICS AND FINANCE

2013 JOURNAL OTHER DATABASE MAIN AUTHOR

71. STUDY THE IMPACT ON PENSION LIABILITIES AS THE AGE OF RETIREMENT INCREASES

3RD INTERNATIONAL CONFERENCE ON BUSINESS AND ECONOMICS RESEARCH

2013 PROCEEDING NON-INDEX MAIN AUTHOR

72. ANALYSIS OF MORTALITY TRENDS BY SPECIFIC ETHNIC GROUPS AND AGE GROUPS IN MALAYSIA

21TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2013 PROCEEDING NON-INDEX MAIN AUTHOR

73. BUTTERFLY EFFECT IN POROUS BNARD CONVECTION HEATED FROM BELOW

21TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2013 PROCEEDING NON-INDEX CO-AUTHOR

74. EMPIRICAL STUDY ON IMPACT OF DEMOGRAPHIC AND ECONOMIC CHANGES ON PENSION COST

THE 3RD INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES

2013 PROCEEDING NON-INDEX CO-AUTHOR

75. GENERALIZED FUZZY SOFT EXPERT SET

JOURNAL OF APPLIED MATHEMATICS

2012 JOURNAL WOS CO-AUTHOR

76. FUZZY PARAMETERIZED FUZZY SOFT EXPERT SET

JOURNAL OF APPLIED MATHEMATICAL SCIENCES

2012 JOURNAL WOS CO-AUTHOR

77. A STUDY ON LONGEVITY FACTORS FOR THE NEW AND OLD GOVERNMENT PENSION POLICIES IN MALAYSIA

MALAYSIAN JOURNAL OF ECONOMIC STUDIES

2012 JOURNAL WOS MAIN AUTHOR

78. THE IMPACT OF INCREASING RETIREMENT AGE ON LONGEVITY FACTOR: AN EMPIRICAL STUDY FOR GOVERNMENT PENSIONERS IN MALAYSIA

JURNAL EKONOMI MALAYSIA

2012 JOURNAL WOS MAIN AUTHOR

79. COMPARISON OF THREE METHODS FOR ESTIMATING COMPLETE LIFE TABLE

20TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2012 PROCEEDING NON-INDEX MAIN AUTHOR

80. INTERVAL-VALUED FUZZY SOFT EXPERT SETS

THE INTERNATIONAL CONFERENCE ON FINANCIAL MATHEMATICS AND NUMERICAL OPTIMIZATION

2012 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

81. A STUDY OF EFFECTS OF ACTUARIAL ASSUMPTIONS ON PENSION COSTS: A SIMULATION ANALYSIS

20TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES

2012 PROCEEDING NON-INDEX CO-AUTHOR

82. METHODS OF EXPANDING AN ABRIDGED LIFE TABLES: COMPARISON BETWEEN TWO METHODS

SAINS MALAYSIANA

2011 JOURNAL WOS MAIN AUTHOR

83. PARAMETER ESTIMATION OF MORTALITY MODEL USING THE LEVENBERG-MARQUARDT ALGORITHM

THE INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, MATHEMATICS AND HUMANITIES (ICASMH 2011)

2011 PROCEEDING NON-INDEX MAIN AUTHOR

84. METHODS OF EXPANDING ABRIDGED LIFE TABLES: COMPARISON BETWEEN TWO METHODS

SEMINAR KEBANGSAAN SAINS KOMPUTER DAN MATEMATIK (SKSKM 2010)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

85. A COMPARISON OF THE NEW GOVERNMENT PENSION POLICY AND THE OLD GOVERNMENT PENSION POLICY IN MALAYSIA

SIMPOSIUM KEBANGSAAN SAINS MATEMATIK KE- 17

2009 PROCEEDING NON-INDEX MAIN AUTHOR

86. EXPANDING AN ABRIDGED LIFE TABLE USING THE HELIGMAN-POLLARD MODEL

MATEMATIKA

2008 JOURNAL WOS MAIN AUTHOR

87. THE IMPACT OF INCREASING RETIREMENT AGE ON THE LONGEVITY FACTOR FOR THE PENSIONER SURVIVES OR DIES IN MALAYSIA

INTERNATIONAL CONFERENCE ON MATHEMATICS AND NATURAL SCIENCES

2008 PROCEEDING NON-INDEX MAIN AUTHOR

88. A STUDY ON THE LONGEVITY FACTOR FOR THE GOVERNMENT PENSIONER IN MALAYSIA

SIMPOSIUM KEBANGSAAN SAINS MATEMATIK KE -16

2008 PROCEEDING NON-INDEX MAIN AUTHOR

89. SEASONALITY IN THE MALAYSIAN STOCK MARKETS DURING THREE ECONOMIC CYCLES

MALAYSIAN FINANCE ASSOCIATION CONFERENCE

2008 PROCEEDING NON-INDEX CO-AUTHOR

90. THE ACTUARIAL IMPLICATIONS IN THE LONG TERM TO THE GOVERNMENT OF INCREASING THE COMPULSORY RETIREMENT AGE ON THE GOVERNMENT PENSION SCHEME IN MALAYSIA

THE 9TH ISLAMIC COUNTRIES CONFERENCE ON STATISTICAL SCIENCES

2007 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. PANEL PENILAI AUDIT DAN AKREDITASI PROGRAM PENGAJIAN BSC(SAINS AKTUARI), FAKULTI SAINS & TEKNOLOGI, UKM

2015 NATIONAL

2. PEMERIKSA SKRIP JAWAPAN MATEMATIK MATRIKULASI KEMENTERIAN PENDIDIKAN MALAYSIA(SAINS-QS015)

KEMENTERIAN PENDIDIKAN MALAYSIA

2013 NATIONAL

3. PEMERIKSA SKRIP JAWAPAN MATEMATIK TULEN STPM

MATRIKULASI KEMENTERIAN PENDIDIKAN MALAYSIA

2013 NATIONAL

4. KHIDMAT PAKAR RUJUK BAGI MEMBANGUNKAN PROGRAM BARU- DIPLOMA SAINS (MATEMATIK KEWANGAN) DI KOLEJ RISDA

KOLEJ RISDA

2013 NATIONAL

5. PEMERIKSA SKRIP JAWAPAN MATEMATIK MATRIKULASI KEMENTERIAN PENDIDIKAN MALAYSIA(SAINS-QS015)

2012 NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH HAFLUSFAST 2024, KLUSTER PENERBITAN, FAKULTI SAINS DAN TEKNOLOGI (ANUGERAH PENERBITAN JURNAL BERINDEKS WOS/SCOPUS/MYCITE)

2025 OTHERS

2. ANUGERAH HAFLUSFAST 2024, KLUSTER PENERBITAN, FAKULTI SAINS DAN TEKNOLOGI (ANUGERAH PENERBITAN JURNAL Q1)

2025 OTHERS

3. ANUGERAH HAFLUSFAST 2024, KLUSTER PENERBITAN, FAKULTI SAINS DAN TEKNOLOGI (ANUGERAH PENERBITAN PROSIDING BERINDEKS WOS/SCOPUS)

2025 OTHERS

4. PENGHARGAAN KECEMERLANGAN PERKIDMATAN 2024 (LNPT MELEBIHI 95%)

2025 OTHERS

5. VISITING SCHOLAR

UNIVERSITAS PADJADJARAN, INDONESIA

2025 INTERNATIONAL

6. ACADEMIC ADVISOR

FACULTY OF MATHEMATICS AND SCIENCE, UNIVERSITAS NEGERI MALANG, INDONESIA

2025 INTERNATIONAL

AWARDS/RECOGNITION

7. ACADEMIC ADVISOR

INSTITUT SAINS MATEMATIK, FAKULTI SAINS, UNIVERSITI MALAYA

2025 NATIONAL

8. ACADEMIC ADVISOR

PUSAT PENGJIAN SAINS AKTUARI, UNIVERSITI TEKNOLOGI MARA

2025 NATIONAL

9. ANUGERAH PENERBITAN JURNAL BERINDEKS WOS/SCOPUS/MYCITE (KLUSTER PENERBITAN)

2024 OTHERS

10. ANUGERAH STAF CONTOH BULANAN PPKI 2024

2024 UNIVERSITY

11. BEST PRESENTER (PROFESSIONAL) IN THE INTERNATIONAL CONFERENCE ON MATHEMATICS: COMPUTATIONAL AND THEORETICAL SCIENCES (ICMCTS) 2023

2023 INTERNATIONAL

12. ACADEMIC ADVISOR

MAJLIS PROFESOR NEGARA

2022 NATIONAL

13. ACADEMIC ADVISOR

UNIVERSITAS PADJADJARAN, INDONESIA

2022 INTERNATIONAL

14. HADIAH SANJUNGAN BAGI KATEGORI BUKU KARYA ASLI

2021 NATIONAL

15. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

16. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

17. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

18. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

AWARDS/RECOGNITION

19. ACADEMIC ADVISOR

KEMENTERIAN PENGAJIAN TINGGI MALAYSIA

2021 NATIONAL

20. ACADEMIC ADVISOR

KEMENTERIAN PENGAJIAN TINGGI MALAYSIA

2021 NATIONAL

21. ACADEMIC ADVISOR

NATIONAL CHUNG HSING UNIVERSITY

2021 INTERNATIONAL

22. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA

2021 NATIONAL

23. MODEL INDEKS PENENTUAN HAD TEMPOH MUALAF

27TH INTERNATIONAL INVENTION & INNOVATION EXHIBITION 2016 (ITEX 2016)

2016 ANTARABANGSA GOLD

24. ANUGERAH PERKHIDMATAN CEMERLANG (APC) 2014

2015 UNIVERSITY

25. ANUGERAH E-NILAI

2015 OTHERS

26. MODEL INDEKS PENENTUAN HAD TEMPOH MUALAF DI MALAYSIA (KATEGORI TERBUKA)

EKSPO INOVASI ISLAM KALI KE-ENAM 2015 (I-INOVA 2015)

2015 ANTARABANGSA SILVER

27. MODEL INDEKS PENENTUAN HAD TEMPOH MUALAF DI MALAYSIA

International Invention, Innovation and Design (IID) Johor 2015

2015 ANTARABANGSA GOLD

28. ANUGERAH PENSYARAH MUMTAZ TOP 100 E-NILAI

2013 UNIVERSITY

29. ANUGERAH PERKHIDMATAN CEMERLANG (APC) 2012

2013 UNIVERSITY