



PROF. MADYA DR. ROSE IRNAWATY BINTI IBRAHIM

PENSYARAH UNIVERSITI DS14

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Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 3, Ongoing: 1

Master - Completed: 3, Ongoing: 1

AREAS OF EXPERTISE

Actuarial Mathematics

Mortality Trends

Social Security

BIOGRAPHY

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

ACADEMIC QUALIFICATION

Phd in Sains Aktuari (2009)

Master in Sains Aktuari (2001)

Bachelor in Computational & Industrial (2001)

Diploma in Sains Matematik (1998)

RESEARCH

1. FORMULATION OF LONG TERM PENSION SUSTAINABILITY MODEL FOLLOWING POPULATION AGEING IN MALAYSIA

2020 COMPLETED MAIN RESEARCHER

2. FORECASTING THE MORTALITY RATES ELDERLY IN MALAYSIA

2015 COMPLETED MAIN RESEARCHER

3. MATHEMATICAL MODELING AND COMPUTER IMPLEMENTATION OF PENSION COSTS PROJECTION

2011 COMPLETED MAIN RESEARCHER

PUBLICATION

1. MORTALITY TRENDS AND ITS IMPACT ON THE PENSION LIABILITIES

2025 JOURNAL

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

2024 JOURNAL

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

2022 JOURNAL

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

2022 CHAPTER IN BOOK

5. LONG-TERM CARE FOR REHABILITATION IN MALAYSIA

2021 BOOK

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

2019 JOURNAL

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

2019 JOURNAL

8. SAINS AKTUARI: APLIKASI DALAM BIDANG PENCEN

2019 BOOK

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

2018 PROCEEDING

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

2018 PROCEEDING

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

2017 JOURNAL

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

2017 JOURNAL

13. AGEING POPULATION IN MALAYSIA

2017 CHAPTER IN BOOK

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

2016 PROCEEDING

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

2015 JOURNAL

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

2014 JOURNAL

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

2014 JOURNAL

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

2014 PROCEEDING

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

2014 CHAPTER IN BOOK

20. COMPARISON OF THREE METHODS FOR ESTIMATING COMPLETE LIFE TABLES

2013 JOURNAL

21. ESTIMATING A COMPLETE LIFE TABLE USING THE HELIGMAN-POLLARD MODEL, SIX-POINT LAGRANGIAN INTERPOLATION AND KING'S OSCULATORY INTERPOLATION

2013 JOURNAL

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

2013 JOURNAL

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

2013 PROCEEDING

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

2013 PROCEEDING

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

2012 JOURNAL

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

2012 JOURNAL

27. COMPARISON OF THREE METHODS FOR ESTIMATING COMPLETE LIFE TABLE

2012 PROCEEDING

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

2011 JOURNAL

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

2011 PROCEEDING

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

2010 PROCEEDING

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

2009 PROCEEDING

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

2008 JOURNAL

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

2008 PROCEEDING

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

2008 PROCEEDING

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

2007 PROCEEDING

CONSULTATION/ADULATION

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)

2013 NATIONAL KEMENTERIAN PENDIDIKAN MALAYSIA

3. PEMERIKSA SKRIP JAWAPAN MATEMATIK TULEN STPM

2013 NATIONAL MATRIKULASI KEMENTERIAN PENDIDIKAN MALAYSIA

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

2013 NATIONAL KOLEJ RISDA

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

2012 NATIONAL

AWARDS/RECOGNITION

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

2023 INTERNATIONAL

2. ACADEMIC ADVISOR

2022 NATIONAL

3. ACADEMIC ADVISOR

2022 INTERNATIONAL

4. HADIAH SANJUNGAN BAGI KATEGORI BUKU KARYA ASLI

2021 NATIONAL

5. ACADEMIC ADVISOR

2021 UNIVERSITY