PUSAT SAINS MATEMATIK

UNIVERSITI MALAYSIA PAHANG

FARAHANIM BINTI MISNI

Position: Lecturer in Mathematics (DS45)

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Academic Qualification :

1. Master of Science (Mathematics)(2008), Universiti Teknologi Malaysia, Skudai
   Dissertation: A Study on Cooling Schedule Effect of Simulated Annealing in Solving Job Shop
                  Scheduling

2. Bachelor of Science (Industrial Mathematics)(2007), Universiti Teknologi Malaysia, Skudai

Professional Membership :

1.   PERSAMA (Persatuan Sains & Matematik Malaysia)

Teaching Contact :

   1.   BUM2433 (Statistics for Management)
   2.   BUM2413 (Applied Statistics)
   3.   DUM2413 (Statistics & Probability)
   4.   BUM1123 (Mathematics for Management)
   5.   DUM1113 (Basic Mathematics)
   6.   BAM1012 (Engineering Mathematics I)
   7.   BUM2012 (Numerical Method)
   8.   BUM1313 (Mathematics)

Administrative Responsibility :

1. Academic Committee, Faculty (Coordinator of Part Time Program) (2011-2013)
2. Academic Committee, Faculty (Coordinator of Teaching & Learning) (2012-2015)
3. E-learning Committee (Faculty Representative)(2013-2015)

4. Librarian Committee (Faculty Representative) (2013-2015)
5. Committee of Program (Sciences)(2015)

Committee Member:
1. Jawatankuasa Tetap Sebutharga/Tender Fakulti (2009)
2. K-Portal (2009-2010)
3. UniK (2009-2010)
4. KIK(Kumpulan Inovatif & Kreatif) (2009)
5. Karnival Akademik (2009)
6. Unit Jaminan Kualiti Fakulti (2010)
7. Majlis Anugerah Cendekia Bitara (2010-2011)
8. ICONT 2012 (International Conference of Nanotechnology)(2011)
9. Karnival Bioteknologi, Herba & ICT Negeri Pahang (2012)
10. 2nd ISM International Statistical Conference (2013)
11. National Conference on Industry-Academia Joint Initiatives in Biotechnology (CIA:Biotech)(2013)
12. Program Sehari Bersama Penasihat Akademik (2014)

Expert Area :
1. Operational Research
2. Metaheuristic
3. Statistics

Research Interest :
1. Operational Research (Heuristic)
2. Statistics

Conferences:
1. Malaysian Technical Universities International Conference on Engineering & Technology (MUiCET 2011 & 2014), 13 – 15 Nov 2011, Batu Pahat, Johor & 10 – 12 Nov 2014, Melaka.
2. International Health Conference (ICHI 2011), 7-8 Dec 2011, Kuantan, Pahang.
3. International Conference on Food Science & Nutrition, 2012 (ICF SN 2012),2-4 Apr 2012, Kota Kinabalu, Sabah.
4. International Conference of Science & Technology, 2012 (ICSTIE 2013)
5. An International Innovation, Invention & Design Competition & Conference (ICON 2014)
6. Innovative Practices in Higher Education Expo (I-PHEX 2015) 6 Aug 2015, Kuala Lumpur.
7. International Conference on Knowledge Transfer (2015) 1 -3 Dec 2015, Putrajaya.
8. International Conference on Control, Optimization and Differential Equation (CODE2017), 18-20 January 2017, Putrajaya.
9. The 7th International Conference on Optimization and Control with Application (OCA2018), 1-4 August 2018, Melaka.
10. International Quantitative Research and Applications Conference (IQRAC2018), 5-8 August 2018, Kuching, Sarawak (IQRAC2018)
11. 30th International Invention, Innovation & Technology Exhibition 2019 (ITEX2019), 2-4 May 2019, Kuala Lumpur, Malaysia.
12. 2nd International Conference on Applied and Industrial Mathematics and Statistics (ICOAIMS2019),

23-25 July 2019, Kuantan, Pahang.
13. 11ᵗʰ International Fundamental Science Congress (iFSC2019), 30-31 October 2019, Putrajaya, Malaysia.
14. International Conference on Recent Advances in Applied Mathematics (ICRAAM2020), 4-6 February 2020, Kuala Lumpur, Malaysia.
15. 2ⁿᵈ Symposium on Multidisciplinary Sciences 2020, 12 August 2020, UPM, Serdang.

Research Grants :
1. Studies on Heavy Metals Contamination of Water and Sediment from Pahang River, Pahang, Malaysia (RDU090309)(2009-2010)

2. Mixed Heuristic Approach for Multidimensional Knapsack Problem (RDU100376)(2010-2012)

3. Pahang State Terrestrial Background Radiation Mapping (RDU110365)(2011-2013)

4. A Ranking Algorithm for Pareto Optimal Solutions in Fuzzy Multi-Criteria Decision Making (RDU1703199)(2017-2019)

Publications (Proceeding/Poster) :
1. Determination of Heavy Metals in Water and Sediment from Pahang River, Pahang, Malaysia. Malaysian Technical Universities International Conference on Engineering & Technology (MUiCET 2011)

2. Determination of Vitamin C and Mineral from Spinach (Amaranthus Viridis) Chips for Nutrient Facts. International Health Conference (ICHI 2011)

3. The Production of Sugar from Banana Peels (Musa Acuminata and Musa Sapientum) and the Determination of Sucrose by HPLC. International Conference on Food Science & Nutrition, 2012 (ICFSN 2012)

4. Mixed Heuristic Method for Multidimensional Knapsack Problem. International Conference of Science & Technology, 2012 (ICSTIE 2013)

5. A Study of Kuantan, Pahang Malaysia Terrestrial Background Radiation in Determination of Uranium & Pottasium-40 (MUiCET, 2014)

6. Construction of Knowledge Through Mistakes: A Learning Module (ICON, 2014)

7. Enhancing Knowledge Transfer Experience Through Computer-Aided Design, Virtual Learning Environment and Community Engagement. International Conference on Knowledge Transfer (2015) & Innovative Practices in Higher Education Expo (I-PHEX 2015)

Publications (Journal) :
1. Misni, F and Lee, L.S. (2017). A Review On Strategic, Tactical and Operational Decision Planning in

Reverse Logistics of Green Supply Chain Network Design, *Journal of Computer and Communications*, 5, 83-104.
2. Misni, F and Lee, L.S. (2019). Harmony Search for Multi-depot Vehicle Routing Problem, *Malaysian Journal of Mathematical Sciences*, 13(3), 311-328.
3. Misni, F and Lee, L.S. (2019). Harmony Search Algorithm for Location-Routing Problem in Supply Chain Network Design, *ASM Science Journal*, 12(5), 48-56.
4. Misni, F., Lee, L. S., & Seow, H. V. (2020). Hybrid Harmony Search-Simulated Annealing Algorithm for Location-Inventory-Routing Problem in Supply Chain Network Design with Defect and Non-Defect Items. *Applied Sciences*, *10*(18), 6625

Publications (Module) :
1. Applied Statistics Module (ISBN 978-967-2226-02-4)(2018)
2. Statistical Tables (ISBN 978-967-0120-85-6)(2018)
3. Basic Mathematics (Internal Use)(ISBN 978-967-0120-93-5)(2013)

Community Service:
1. Mini MAHA (2011)
2. Karnival Ez-Scimat – jointly organized with MOSTI (2012)
3. Program Matemadesa – jointly organized with PERSAMA (2011 – 2012)
4. Olimpiad Matematik Kebangsaan – jointly organized with PERSAMA (2010 – 2015)
5. Oh My Math! - jointly organized with ECER (2014)
6. Program Motivasi & Matematik (SMK Ahmad, Pekan)(2015)