

# DR. BINYAMIN BIN YUSOFF

## SENIOR LECTURER

Dr. Binyamin Yusoff holds a BSc and MSc in Mathematics from Universiti Malaysia Terengganu (2007, 2010) and a PhD from the University of Barcelona (2017). He is currently a Senior Lecturer at Universiti Malaysia Terengganu and was a Postdoctoral Researcher at INSPEM, Universiti Putra Malaysia (2022–2023). His research focuses on decision analysis under uncertainty, fuzzy set theory, higher-order fuzzy sets, and optimization, particularly in multidimensional decision models and information fusion. He is a member of PERSAMA, MSORSM, and ASASI.



### RESEARCHER PROFILE

Scopus<sup>®</sup> 36629667700

ORCID 0000-0002-3899-1474

Google scholar BINYAMIN YUSOFF

### EDUCATION

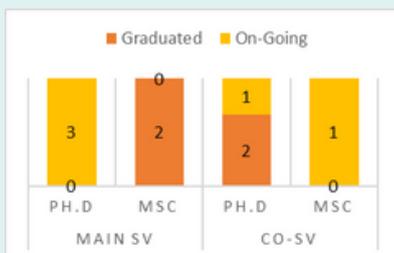


- PhD in Applied Mathematics (Financial Decision Analysis), University of Barcelona
- MSc in Mathematics (Fuzzy Set Theory), Universiti Malaysia Terengganu
- BSc in Computational Mathematics, Universiti Malaysia Terengganu

### AREAS OF EXPERTISE

- Fuzzy Sets
- Aggregation Functions
- Decision Analysis
- Financial Optimization

### SUPERVISION



### COLLABORATORS



### CONTACT

- +6019-9890485
- binyamin@umt.edu.my
- fskm.umt.edu.my

### SELECTED RESEARCH PROJECTS

- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. Modification of ELECTRE Model Using ELICIT Expressions Under Circular Intuitionistic Fuzzy Set for Multi-Criteria and Multi-Expert Decision-Making Under Uncertainty. (2023–2026). RM126,000
- ✓ Talent, and Publication Enhancement Research Grant (TAPE-RG), Universiti Malaysia Terengganu (UMT). Expansion of Weighted Selective Aggregated Majority-OWA for Heterogeneous Group Decision with Uncertainty Analysis. (2018 – 2020). RM20,000.

### SELECTED PUBLICATIONS

- ✓ D Pratama, **B Yusoff**, L Abdullah, A Kilicman, H Kamis (2024). Extension Operators of Circular Intuitionistic Fuzzy Sets with Triangular Norms and Conorms: Exploring Domain Radius, AIMS Mathematics, 9(5), pp. 12259-12286. WoS/SCOPUS indexed.
- ✓ HAE Khalifa, A Al-Quran, F Al-Sharqi, **B Yusoff**, KW Nahar Tajer, AT Faisal, AMA Awad (2024). Utilization of Neutrosophic Kuhn-Tucker's Optimality Conditions for Solving Pythagorean Fuzzy Two-Level Linear Programming Problems, International Journal of Neutrosophic Science, 23(3), pp. 87-96. SCOPUS indexed. NN-Adam. Results in Applied Mathematics, 22, 100457. Scopus indexed
- ✓ D Pratama, **B Yusoff**, A Kilicman, L Abdullah (2023). The Generalized Circular Intuitionistic Fuzzy Set and Its Operations, AIMS Mathematics, 8(11), pp. 26758-26781. WoS/SCOPUS indexed.
- ✓ **B Yusoff**, D Pratama, A Kilicman, R Hasni. (2023). Circular Q-Rung Orthopair Fuzzy Sets, Malaysian Journal of Mathematical Sciences, 17(3), pp. 363-378. WoS/SCOPUS indexed.
- ✓ **B Yusoff**, D Pratama, A Kilicman, L Abdullah. (2023). Circular Intuitionistic Fuzzy ELECTRE III Model for Group Decision Analysis, Informatica, 34(4), pp. 881-908. WoS/SCOPUS indexed.

*"Between truth and falsehood lies uncertainty yet to be discovered"*