



## RESEARCHER PROFILE

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## EDUCATION



- PhD in 2005, UPM, Malaysia
- Master in 2000, UKM, Malaysia
- BSc. in 1998, USM, Malaysia

## AREAS OF EXPERTISE

- Graph Theory
- Combinatorics

## SUPERVISION



## COLLABORATORS



# ROSLAN BIN HASNI @ ABDULLAH

## PROFESSOR

Roslan Hasni @ Abdullah is currently a Professor with Universiti Malaysia Terengganu (UMT) Terengganu, Malaysia. He was formerly attached with School of Mathematical Sciences, USM Penang, Malaysia from 2005 to 2012. His research interests are chromaticity in graphs, domination theory, graph labeling, chemical graph theory and social network analysis.

## CONTACT

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## SELECTED RESEARCH PROJECTS

- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. A New Mathematical Framework to Identify Self-affine Features In High Dimensional Hydrologic Dataset Using Topological Data Analysis for Anomaly Recurrence Detection & Visualization. (2019-2023). RM132,100
- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. The determination of new families of graphs with edge reflexive irregular k-labeling for certain constraint parameters. (2020-2024). RM97,500.
- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. Characterization of new families of n-vertex connected graph with extremum topological indices. (2016-2020). RM54,716.98

## SELECTED PUBLICATIONS

- ✓ I.N. Suparta, Y. Lin, R. Hasni, R. and I.N. Budayana, On odd-graceful coloring of graphs, Communications in Combinatorics and Optimization, 10(2) (2025), 335-354 (Scopus, ESCI)
- ✓ K.K. Young, R. Hasni, G.C. Lau and A. Ahmad On the vertex irregular reflexive labeling of generalized friendship graph and corona product of graphs, Communications in Combinatorics and Optimization, 9(3)(2024), 509-526 (Scopus, ESCI)
- ✓ S. Bermudo, R. Hasni, F. Movahedi and J.E. Nápoles, The Geometric-Arithmetic index of trees with a given total domination number, Discrete Applied Mathematics, 345(2024), 99-113 (ISI)
- ✓ R. Hasni, F. Movahedi, H. Kamarulhaili and M.H. Akhbari, Sharp Upper Bound for Harmonic Index of Trees with Given Total Domination Number, Ars Combinatoria, 159(2024), 179-186 (Scopus)
- ✓ R. Hasni, D.A. Mojdeh and S.A. Bakar, Domination (totally) Dot-critical of Herary Graphs Malaysian Journal of Mathematical Sciences, 18(1)(2024), 1-7 (Scopus, ESCI)

*"Stay focus and motivated in research and publication."*