

Faculty Profile

Dr. Belfin R V, M.E., Ph.D

Assistant Professor,

Department of Computer Science and Engineering

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Academic Background

Degree	University	Year
Ph.D	Karunya Institute of Technology and Sciences	2020
M.E	Anna University	2011
B.E	Karunya Deemed University	2009

Courses Taught

- Data Analytics
- Social Network Analysis
- Business Intelligence
- Machine Learning
- Robotic Process Automation
- Python
- Data Mining

Research Interests

- Social Network Analysis – Information diffusion, community detection, multilayer network
- Neuroscience – Connectomics, functional connectivity, multilayer brain network, structural brain imaging

Most recent Publications

- **Belfin, R. V.**, E., G. M. K., & Piotr Bródka. (2018). Overlapping community detection using superior seed set selection in social networks. *Computers and Electrical Engineering*, 70, 1074-1083. doi:10.1016/j.compeleceng.2018.03.012 (**IF. 2.663**).
- **Belfin, R. V.**, & Grace Mary Kanaga, E. (2018). Parallel seed selection method for overlapping community detection in social network. *Scalable Computing*, 19(4), 375-385. doi:10.12694/scpe.v19i4.1429.
- Varkey, S. B., **Belfin, R V.**, & Paul, G. R. (2020). Machine Learning Algorithms Using Stock Market Dataset–A Comparative Study. *Journal of Critical Reviews*, 7(15), 3517-3526.
- Anitha, J., Ting, I. H., Agnes, S. A., Pandian, S. I. A., & **Belfin, R. V.** (2020). Social media data analytics using feature engineering. In *Systems Simulation and Modelling for Cloud Computing and Big Data Applications* (pp. 29-59). Academic Press.
- **Belfin, R.V.**, Grace Mary Kanaga, E. and Kundu, S. (2020). Application of Machine Learning in the Social Network. In *Recent Advances in Hybrid Metaheuristics for Data Clustering* (eds S. De, S. Dey and S. Bhattacharyya). doi:[10.1002/9781119551621.ch4](https://doi.org/10.1002/9781119551621.ch4)
- B.L. Radhakrishnan, S. Sudhakar, **R. V. Belfin**, P. Karthikeyan, E. Kirubakaran, K. Martin Sagayam. (2021). Techniques for Resource Sharing in Cloud Computing Platform. In Pan, I. (Ed.), Elaziz, M. (Ed.), Bhattacharyya, S. (Ed.). *Swarm Intelligence for Cloud Computing*. New York: Chapman and Hall/CRC, <https://doi.org/10.1201/9780429020582>
- [Mental health issues and sleep quality of Indian employees and higher education students during COVID-19 lockdown](#) by B.L. Radhakrishnan; E. Kirubakaran; R.V. Belfin; Sudhakar Selvam; K. Martin Sagayam; Ahmed A. Elngar, *International Journal of Intelligent Engineering Informatics (IJIEI)*, Vol. 9, No. 2, 2021

Projects Guided

- Virtual Community hospitals
- COVID-19 India Predictions
- ChatBot for Cancer Patients
- Image processing on Alzheimer's MRI data
- Multilayer networks layer switching cost.
- Multilayer networks community detection.

Memberships in Professional societies

- IEEE

Significant achievements:

- Earned Research Fund worth 80,000 INR from Wroclaw University of Science and Technology, Wroclaw, Poland.
- Won Seed Money project fund worth 8000 for the project "Study on brain activity during the usage of Virtual reality with real-world system" based on Brain signal processing.
- Won the "Achiever of the year in Teaching and Research -2019" from ICIAS'T'19 held at NUS, Singapore.
- Recognized as the BRONZE partner faculty under Inspire - The Campus Connect Faculty Partnership Model, Infosys.
- Recognized for the contribution as the reviewer in SCI-indexed journals like "Computer and Electrical Engineering" and "Physica A: Statistical Mechanics and its Applications" Journals.
- Awarded with the "National Young Leaders Program Award" from the Ministry of Youth Affairs and Sports, Government of India and NSS Regional Directorate Chennai Tamil Nadu.

