RAJESHWARI S

raje14697@gmail.com

Experience

Assistant Professor (Fellowship) – 03/02/2020 to 31/07/2023
Vellore Institute of Technology, Chennai Campus

Research Associate (TRA) – 01/08/2019 to 02/02/2020
Vellore Institute of Technology, Chennai Campus

Education

Ph.D (Mathematics) (Ongoing from 2019)

Vellore Institute of Technology, Chennai Campus

Master of Science (Mathematics) (2017-2019)

Meenakshi College for Women, Chennai

Bachelor of Science (Mathematics) (2014-2017)
SDNB Vaishnav College for Women, Chennai

Certifications

- NPTEL course in Machine Learning (March 2023)
- NPTEL course in Advanced Graph Theory (April 2022)
- NPTEL course in Graph Theory (March 2021)

Technical expertise

- MATLAB
- Python
- Latex

Research Interest

- Graph Theory
- Parallel Algorithms
- Networking
- Theoretical Computer Science

Publications

- **Rajeshwari, S.**, Rajesh, M.: Exact wirelength of embedding 3-ary n-cubes into certain cylinders and trees. Fundamenta Informaticae 188(4), 269–284 (2023) **(SCI, SCOPUS) IF: 1.333**.
- **Rajeshwari, S.**, Rajesh, M.: On optimal embeddings in 3-ary n-cubes. Mathematics 11(7), 1711 (2023) **(SCI, SCOPUS) IF: 2.4**.
- **Rajeshwari, S.**, Rajesh, M.: Embedding of 3-Ary n-Cubes in generalized book graphs and triangular snakes. AIP Conference Proceedings (2023) – Article in Press **(SCOPUS)**.
- **Rajeshwari, S.**, Rajesh, M.: Revolutionizing Smart Agriculture: Burning Number Analysis and Linear Regression for Optimal Sensor Activation in 3-Ary n-Cube Networks. IEEE Xplore (2024) – Accepted **(SCOPUS)**.

Research Portals

Participations in Conferences & Workshops

- Presented a research paper entitled "Revolutionizing Smart Agriculture: Burning Number Analysis and Linear Regression for Optimal Sensor Activation in 3-Ary n-Cube Networks" in the International Conference on Integrated Circuits, Communication, and Computing Systems (ICIC3S-2024) organized by School of Electronics, Indian Institute of Information Technology, Una, Himachal Pradesh, India on June 8-9, 2024.

- Participated in one day workshop on "Machine Learning Techniques using Python" organized by Division of Mathematics, School of Advanced Sciences during 28 June 2023 at Vellore Institute of Technology, Chennai.

- Received **Best Paper Award** for a research paper titled "Embedding of 3-Ary n-Cubes in generalized book graphs and triangular snakes" in the International Conference on Integration of Advanced Technologies for Industry 4.0 (ICIATI 4.0) on June 23rd and 24th, 2023 at KCG College of Technology, Karapakkam, Chennai, Tamil Nadu, India.

- Participated in VAC on "Mathematics for Machine Learning" organized by Division of Mathematics, School of Advanced Sciences during 22 May - 13 June 2023 at Vellore Institute of Technology, Chennai.
Presented a research paper entitled "Optimal Embedding of 3-Ary n-Cubes into certain Necklace graphs" in the International Conference on Recent Developments in Mathematics (ICRDM 2022) organized by the Faculty of Engineering, Applied Science and Technology, Canadian University Dubai, Dubai, UAE in conjunction with the Department of Mathematical Sciences, United Arab Emirates University, Al Ain, UAE on August 24-26, 2022.

- Participated in the workshop titled "Graph Theory using Open-Source Software (SAGE & R)" organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 5 March 2022.

- Participated in the "workshop on Documentation using LaTeX" organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 5-6, 19-20 February 2022.

- Presented a paper titled "Embedding of Tori in Mesh Architectures" in ICRSMA21, SSN College of Engineering, Chennai on January 9, 2021.

- Participated in International conference on Graph Labeling and its applications organized by Department of Mathematics, Goa University, Goa on Sep 17-19, 2020.

- Participated and completed LaTeX test organized at GIET University, Gunupur, Rayagada the training is offered by the Spoken Tutorial Project, IIT Bombay on May 2, 2020.

- Presented a paper titled "General Position Problem on Recursive Circulants" in ICMCE 2020, VIT, Chennai on February 21, 2020.

- Participated in One Day Workshop on R, VIT, Chennai on November 9, 2019.

- Participated in International Workshop on Data Analytics and MATLAB, Stella Maris College, Chennai on September 6, 2019.

- Participated in Value Added Program on MATLAB & Latex, VIT, Chennai on August 22-23, 2019.