



Profile:

Name: S.RAJARAJESWARI

Designation: Assistant Professor, Department of Science and Humanities

Area of Interest: Mathematics-Graph theory

About me

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Facebook link:

Research scholar link:

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Google scholar id:

PROFESSIONAL INFORMATION:

PUBLICATION

1. K. R. Singh, **S.Rajarajeswari**, R. Kumar, T. Agrawal, R. S. Kadam, and R. Raghavendra, "Exploring the Impact of AI-Driven Natural Language Processing in Computational Analysis," in Proc. IEEE, no. 61001, 2024.
2. P. B. E. Prabhakar, **S. Rajarajeswari**, S. Antad, S. B. Jeshurun, A. Badhoutiya, C. S., and D. S. Babu, "Machine Learning Algorithms for Predictive Maintenance in Hybrid Renewable Energy Microgrid Systems," E3S Web of Conferences, vol. 591, p. 05002, 2024.
3. N. K. Senthil Kumar, K. Suresh Kumar, S. Amalatha, A. Hency Juliet, D. R. Bhavarthi, and **S. Rajarajeswari**, "Beyond Reality: Crafting Logical Systems for Autonomous Vehicles through Virtual Reality," in Proc. 2024 2nd World Conference on Communication & Computing (WCONF), Raipur, India, Jul. 12–14, 2024.

4. S. R. Bhagat, **S. Rajarajeswari**, S. S. Shreenidh, K. Sharma, K. Seth, and R. K. Yadav, "Exploiting Deep Learning Architectures for Effective Real-Time Data Analysis in Machine Learning," in 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Karnataka, India, Dec. 21–23, 2023, pp. 1–6.
5. S. Rajarajeswari, V. K. Kolekar, M. Singh, P. Warul, S. R. Sorthia, and J. Soni, "Uncovering the Link Between Deep Learning and Data Science Practices," in Proc. 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Karnataka, India, Dec. 21–23, 2023, pp. 1–6.
6. R. Kachhoria, L. Mittal, P. Divakaran, V. Singh, N. Thangarasu, and S. Rajarajeswari, "The Impact of Advanced Neural Network Architectures for Extracting Elusive Information," in Proc. 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Karnataka, India, Dec. 29–31, 2023.
7. Nirmala, G., Anitha, K., & Rajarajeswari, S. (2023). Algorithm for Finding Roman Dominating Number of Extended Duplicate Graph of Star Families. International Journal for Modern Trends in Science and Technology, 9(02), 11–13.

COURSERA

1. Differential Equation for Engineers
2. Matrix Algebra for Engineers

PATENTS

1. Fuzzy logic based maximum power point tracking for solar grid Tie inverter, Application No.202341000886 A, Published date: 13/1/23. V. Mythili, Dr.S. Jayasudha, C. Vennila, S. Rajarajeswari, D. Little Femilin Jana
2. Lubrication Leakage Defection using Satellite image through computer vision, Application No.202341038349 A, Published date: 18/8/23. C. Vennila, Dr. X.Mercilin Ranjani, S. Rajarajeswari, D. Little Femilin Jana, V. Mythili,

EDUCATION DETAILS

1. M.Phil., Mathematics, 2008, Bharathidasan University
2. M.Sc., Mathematics, 2006, Sengamala Thayaar Educational Trust Women's College,
Mannargudi, Bharathidasan University
3. B.Sc., Mathematics, 2004, Sengamala Thayaar Educational Trust Women's College,
Mannargudi, Bharathidasan University

WORK EXPERIENCE:

- Worked as a Senior Lecturer in the Department of Mathematics, ARJ College of Engineering and Technology, Mannargudi (September '2007 to April'2011).
- Working as an Assistant Professor in the Department of Mathematics, Prince Dr.K.Vasudevan College of Engineering and Technology, Chennai (July '2011 to Jan 2018).
- Working as an Assistant Professor in the Department of Mathematics, Prince shri venkateshwara padmavathy Engineering and Technology, Chennai (Feb '2018 to Till now).

LIST OF SEMINARS, FDP AND CONFERENCES ATTENDED

1. Five day Virtual Faculty Development Programme on "Interdisciplinary Research Collaborations And Innovative Teaching Methods For Mathematics" organized by Department of Mathematics, in Association with IQAC and IIC, St.Joseph's college (Arts and Science) from 17 Mar 25 to 21 Mar 25.
2. Three-day Virtual Workshop on Advanced Research Tool on the topic "Hands-on Workshop on Latex" organized by the Internal Quality Assurance Cell & the Department of Mathematics of Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai from 01st Mar 2025 to 04th Mar 2025.

3. International seminar on mathematics – the gateway to the emerging trends of technology 2024 organized by the department of mathematics, Justice Basheer Ahmed Sayeed College For Women (autonomous), Chennai on 24th dec 2024.
4. Five-Day National Level Online FDP titled "Beyond Boundaries: Driving Innovation in Research", conducted from 26th December 2024 to 30th December 2024.,organized by the Committee for Research Ethics, Publication & IPR, Auxilium College (Autonomous), Vellore
5. Online FDP titled "How Teachers Can Make a Difference", organized by Rajalakshmi Engineering College and conducted by the Teaching Learning Centre of IIT–Madras (TLC–IITM). This program was held from 21st to 25th August 2023
6. One-Week Virtual National Level FDP on "Research Vision to Solve Problems through Different Angles" organized by Parul Polytechnic Institute, Parul University, Gujarat, and sponsored by GUJCOST, from 15th to 20 th October 2022.
7. Five-Day International Level Online FDP titled “Mathematical Programming – 2022” conducted from 20th April 2022 to 25th April 2022, Department of Mathematics, PPG College of arts and Science . Coimbatore.
8. 7-day online Faculty Development Programme on "Role of Mathematics in Latest Engineering Trends", organized by the Department of Mathematics under the Department of Science and Humanities, Lords Institute of Engineering and Technology, from 4th to 10th June 2021.
9. NAAC Sponsored National Seminar on “Role of IQAC in Implementing Innovative Practices in Teaching Learning”, organized by the Internal Quality Assurance Cell (IQAC) of Prince Shri Venkateshwara Padmavathy Engineering College, Chennai. The two-day online seminar held on 27th and 28th April 2022.

10. Two-day workshop on Algebra, organized by the Department of Science and Humanities at Hindusthan College of Engineering and Technology. The workshop, held from 22nd to 23rd July 2020.
11. Online Faculty Development Programme (FDP) on “7 QC Tools for Educational Excellence”. The FDP was organized by the Quality Circle Forum of India, Chennai Chapter, and conducted from 22nd to 26th June 2020,
12. Five-day International Faculty Development Programme on “Applications and Techniques in Mathematics”. The FDP was organized by the Department of Science and Humanities, Sri Sairam Institute of Technology, Chennai, and conducted online from 20th to 24th July 2020,
13. Faculty Development Programme on “Pure and Applied Mathematics”, organized by the Department of Science and Humanities, Hindusthan College of Engineering and Technology, Coimbatore. The programme was conducted on 6th and 7th July 2020.
14. National Conference on Advancements in Science and Humanities (NCASH-2020). The conference was organized by the Department of Science and Humanities, Kings College of Engineering, Punalkulam, Tamil Nadu, and held on 13th July 2020.
15. Webinar on "STRATEGY TO CRACK CSIR NET IN MATHEMATICS" Organized by the Department of Science and Humanities of Hindusthan College of Engineering and Technology, Coimbatore held on 16th June, 2020.
16. One-Day National level Webinar on "Significance of Discrete Structures through Some Graph Models" organized by Department of Mathematics, on 23rd June 2020.
17. National Webinar on "Technology-enabled Higher Education in India: Opportunities and Challenges" organized by Mathematics Department, Daulat Ram College, on 19th June 2020.

18. webinar titled "Essential Mathematics for Engineering Projects and Research-An insight into Methodologies" Organized by SASTRA Deemed to be University, Thanjavur on 12.06.2020
19. International Webinar on EMERGING TRENDS IN GRAPH THEORY organized by P.G & Research Department of Mathematics, Sacred Heart College (Autonomous), Tirupattur from 14th to 16th June 2020.
20. Webinar on ""Key Notes to Write a Research proposal and funding opportunities in India - An Overview", presented by Dr. T. KUBENDRAN, M.Sc., M.Phil., Ph.D., Scientist - C, High Altitude Regional Centre, Ministry of Environment, Forest & Climate Change Government of India, Organized by Department of Chemistry, St. Mother Theresa Engineering College, Thoothukudi, Tamilnadu on 26-06-2020.
21. National Webinar on "Theory of Graphs - An Emerging Field of Research" conducted by Thiagarajar College, Madurai on 20th June 2020.
22. Online-FDP on "7 QC TOOLS for Educational Excellence" conducted by Quality Circle Forum of India Chennai Chapter from 22nd to 26th of June 2020
23. Five Days Online International Faculty Development Programme on "Applications and Techniques in Mathematics"held from 20th July 2020 to 24th July 2020, Sai Ram Institute of Technology, Chennai.
24. Two-day workshop on algebra organized by department of Science and Humanities of Hindusthan College of Engineering and Technology from 22nd July 2020 to 23rd July 2020.
25. Webinar on Embedding of Fuzzy Graphs on Topological Surfaces conducted by Jeppiaar Engineering College on 13th June 2020.
26. Webinar on "SIDDHA NOVEL COVID-19 TACKLE SCARE organized by Science and Humanities of Hindusthan College of Engineering and Technology on 23rd June 2020.

27. One day program on e-National Conference on Advancements in Science and Humanities (e-NCASH-2020) organized by Department of Science and Humanities, Kings College of Engineering, Punalkulam, Pudukkottai, Tamilnadu, India on 13th July 2020.
28. "FACULTY DEVELOPMENT PROGRAM ON PURE AND APPLIED MATHEMATICS" organized by the Department of Science and Humanities of Hindusthan College of Engineering and Technology, Coimbatore held on 6th July 2020 to 7th July 2020.
29. Three Days National Level Faculty Development Program on "How to Crack CSIR-NET & SET In Mathematics" organized by Department of Science and Humanities, Dr. N.G.P. Institute of Technology, Coimbatore on 24th June 2020 to 26th June 2020.
30. India First Leadership Talk webinar with Prof D. P. Singh, Chairman UGC Broadcasted on 9th May 2020 by MHRD's Innovation Cell.