



Faculty Profile

Name: Dr. P.Sumitra

Designation: Assistant Professor, Department of Data Science

Qualification: Ph.D., M.Phil., MCA., M.Sc., B.Sc.

Experience: 22 Years 3 Months 28 days (Teaching & Research)

Area of Specialization: Digital Image Processing, Data Mining, Networking, Network Security

Academic Background

- **Ph.D.** in Computer Science – [Mother Teresa Women’s University, Kodaikannal], [2013]
- **M.Phil.** in Computer Science – [Mother Teresa Women’s University, Kodaikannal], [2003]
- **M.Sc.** in Computer Science – [V.V.Vanniaperumal College for Women, Virudhunagar], [1998]
- **MCA[LE]** in Computer Applications – [Periyar University],[2009]
- **B.Sc.** in Computer Science – [St.Mary’s College,], [1993]

Research Interests

- Digital Image Processing,
 - Data Mining, Networking,
 - Network Security
 - Natural Language Processing
 - Softcomputing
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Publications

- Published 04 research papers in WOS, 14 research papers in Scopus, 07 research papers in UGC CARE Journal , 49 research papers in UGC Approved Journal and 5 Peer Reviewed Journal
 - Presented 18 papers in national and 12 papers in international conferences.
 - Contributed 14 book chapters in international publication – Scopus indexed,01 book chapters in National Publication and 4 books chapters in State Publications.
 - Contributed 01 copyright published and 2 patent published
1. Deep neural network-based image segmentation system to create slap-optimized sequence, Vol., Opsearch, Springer, Published 11 October 2025,<https://doi.org/10.1007/s12597-025-01032-7>, Impact Factor: 1.8
 2. Image edge detection using butterfly-optimized adaptive resonance neural model, Volume 84, pages 43077–43100, Springer, Published: 24 April 2025, <https://link.springer.com/article/10.1007/s11042-025-20795-1>
 3. Efficient query clustering and information retrieval using Sequenced User Search Pattern Query Optimization, Volume 84, pages 16033–16055, Springer, Published: 26 June 2024, <https://link.springer.com/article/10.1007/s11042-024-19463-7>
 4. A hybrid Approach for mortality prediction for heart patients using ACO-HKNN, Journal of Ambient Intelligence and Humanized Computing, Volume 12, pages 5405–5412, (2021) Indexed : <https://link.springer.com/article/10.1007/s12652-020-02027-6>.
 5. Document Summarization Based on Information Retrieval Using Query Search Ranking Method, International Journal Modern Education and Computer Science, <https://www.mecs-press.org/ijmecs/ijmecs-v16-n4/v16n4-5.html> ,August 8,2024

(Attach list of top 5 publications with DOI or links if needed.)

Academic Contributions

- Awarded 30 M.Phil. scholars , 4 Ph.D Scholars awarded and currently guiding 2 Ph.D. candidates [01:FT and 01:PT]
 - Reviewer for international Book Chapter (IGI Global)
 - Member, Board of Studies – Department of Computer Science
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Professional Memberships

- The Indian Science Congress Association Membership No. L37793, from 25th March 2019 to till date.
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Awards & Recognitions

- Research Incentive Award – [Vivekanandha College of Arts and Sciences for Women(A)], [2025]
 - Research Incentive Award – [Vivekanandha College of Arts and Sciences for Women(A)], [2024]
 - Best Teacher Award- [Tamil Thai Foundation][2023]
 - Best Teacher Award— [Vivekanandha College of Arts and Sciences for Women(A)], [2022]
 - National Eminent Researcher Award - [I2OR- United Nations Sustainable Development Goals] [2020]
 - National Eminent Author Award - [I2OR- United Nations Sustainable Development Goals] [2020]
 - Best Women Scientist Award - Novel Research Academy [2020]
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Workshops / FDPs Attended

- Quality Dimensions In Social Science Stream Doctoral Research, SWAYAM Cell, [Periyar University] [2020].
 - One Day Professional Development Workshop for Social Science Stream Research Supervisors of Periyar University on Quality Dimensions in Social Science Stream Doctoral Research, [Periyar University],[2020].
 - Ten Days Skill Training Programme on “Web Design Course for Entrepreneurship-Phase 2.Digital Career and Entrepreneurship Hub project of MHRD BU RUSA Phase II BEICH, [Bharathiar University][2020]
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Contact Details

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- **Phone:** -
- **IRINS Profile:**
- **LinkedIn (Optional):** -