Name : **Dr. SIVARANJANI.R**

Designation : Assistant Professor

Department : Information Technology

Qualification : **B.Sc(Maths),MCA,Ph.D**

Experience : Teaching -14Years **7 Months**

Research : 9Years

AreaofSpecialization(s) : Networking

Email(OfficialID) : **sivaranjanir**@psgrkcw.ac.in

AcademicQualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Computer Science	Hindusthan College of Arts and Science,(Bharathiar University)	2021
MCA	Computer Applications	RMK Engineering College, (Anna University)	2005
B.Sc.	Mathematics	JBAS Women's College, (Madras University)	2002

Research Publications (Indexed)

International

➢ "Particle Swarm Optimization Based Approach for Reduction of Energy Consumption and Time Period in Wireless Sensor Network", Vol 13(11):3927-3934, Aug 2018, Journal of Engineering and Applied Sciences,ISSN:1816-949X(ScopusIndexed).

https://medwelljournals.com/abstract/?doi=jeasci.2018.3927.3934

➢ "Efficient Health Monitoring Networks Using Secured Energy Aware (SEA) Scheme", Volume-8 Issue-10, pp. 3643-3649, Aug 2019, International Journal of Innovative Technology and Exploring Engineering,ISSN:22783075,

Scopus.https://www.ijitee.org/wpcontent/uploads/papers/v8i10/I8118078919.pdf

- ➤ "Wireless Sensor Network Energy-Efficient Secure Pattern Based Data Aggregation", Volume 9, Issue 03, March 2020, International Journal of Scientific & Technology Research, ISSN 2277-8616, Scopus. https://www.ijstr.org/final-print/mar2020/Wireless-Sensor-Network-Energy-efficient-Secure-Pattern-Based-Data-Aggregation.pdf

Other Publications: International/National

- ➤ "Survey of Healthcare Management using Wireless Sensor Networks (WSNS)", Issue 09, Volume 4 (September 2017), International Journal of Innovative Research in Advanced Engineering (IJIRAE), ISSN: 2349-2163. IJIRAE/RS/Vol.04/Issue09/JNAE10091

- ➤ "Secure and Efficient Energy Based Data Sharing Scheme in Wireless Sensor Networks", Volume 6, Issue 2, pp. 30-37, June 2019, International Journal of Research and Analytical Reviews (IJRAR), ISSN-E 2348-1269, P-ISSN 2349-5138 https://ijrar.org/viewfull.php?&p_id=IJRAR19K4682

- ➤ "Energy Efficiency Based Data Transmission using GSA Optimization in Wireless Sensor Network", Volume 6, Issue 2, ISSN: 2456-3307, 21 March 2020, International Journal of Scientific Research in Computer Science, Engineering and Information Technology. https://ijsrcseit.com/CSEIT206227

- ➤ "Energy-Efficient Architecture for Wireless Sensor Networks in Healthcare Applications", Volume 8, Issue 3, May-Jun 2020, International Journal of Computer Science Trends and Technology (IJCST), ISSN: 2347-8578. http://www.ijcstjournal.org/volume-8/issue-3/IJCST-V8I3P8.pdf

- ➤ "Cluster based Energy Efficiency of Wireless Sensor Network for Healthcare Data", Volume 8, Issue 4, December 2020, International Journal of Engineering Development and Research (IJEDR), ISSN: 2321-9939. https://www.ijedr.org/papers/IJEDR2004042.pdf

- ➤ "Risk Analysis and Security Idea for e-Healthcare Data Propagation and Storage" Volume XIV, Issue 7, 2022, Journal of Xi'an University of Architecture & Technology ISSN No : 1006-7930.
  https://app.box.com/s/d5295g1t8ko4xzpaj4gau3xcau92b5z9

> ➤ "The SEAST: Scheme for Efficient Health Monitoring in Wireless Sensor Networks" Volume 11 Issue 12 December 2023, International Journal of Creative Research Thoughts
>
> https://ijcrt.org/generatecerti.php?&pid=IJCRT2312558

Book Published

> ➤ "Computer Networks", Aruna Publications, 2017, ISBN:941-78-1353-721-7.
> ➤ "The Security Essentials Data, Network & Computer", Notion Press Publisher, Jan 2023, ISBN-139798889236719.
>   https://www.amazon.in/Security-Essentials-Data-Network-Computer/dp/B0BRCRXQ9W
> ➤ " A Handbook on BIG DATA Analytics", Scientific Research Publication, 2024, ISBN: 9798321466865

Book Chapter Published

"An Overview of the Big Data Technology for Computer Assisted Learning" in the IGI Global Book Chapters 2022.
"Effective Methods of Artificial Intelligence in Health Care Industry A Multidisciplinary Perspective" in the Advances in Future Trends and Technology, Chapter 10, 2024, ISBN – 978-81-963688-3-8 2024

Letter of Appreciation

> ➤ Participated in Digital Teaching Techniques 29 Jun 2020 to 04 Jul 2020, ICT academy Microsoft Azure Fundamentals from 28 Mar 2022 TO 30 Mar 2022.
> ➤ Letter of Recognition for being IBM Co-Ordinator and DBT Star Scheme Co-Ordinator.

Reviewer in journal

> ➤ Reviewer at "Measurement: Sensors" Elsevier Journal.

Paper Presentations in Conference

International

> "Secure and Energy Efficient Based Healthcare Data Transmission Wireless Sensor Network", Volume 31 pp. 327-333, Aug 2019, International Conference on Computer Networks, Bigdata and IoT (ICCBI-2018) LNDECT, ISBN:978-3-030-24642-6, Springer. https://link.springer.com/chapter/10.1007/978-3-030-24643-3_39

Participation in Conference

- ❖ National Conference on Emerging Trends in Computing & Communication - organized by Department of Computer Science,Computer Application, Information Technology,Computer Technology , Computer Science with Cognitive System, Artificial Intelligence & Machine Learning, Hindusthan College of Arts & Science, Coimbatore on 21st December 2023
- ❖ Second International Conference on Recent Trends in Computer Science and Data Analytics - 2024(ICRTCSDA'24) - organized by the Department of Computer Science with Data Analytics , KPR College of Arts Science & Research , Coimbatore on 2nd February 2024.
- ❖ "Energy-Efficient Routing Based Distributed Cluster for Wireless Sensor Network", pp. 489–497, 2020, ICIDCA 2019, LNDECT 46, ISSN 2367-4512, ISSN 2367-4520 (electronic), ISBN 978-3-030-38039-7 ISBN 978-3-030-38040-3 (eBook), International Conference, Springer. https://link.springer.com/chapter/10.1007/978-3-030-38040-3_55

- ❖

Participation in Faculty Development Programme

- ▪ FDP on KCW Teaching and Learning Centre , by PSGR Krishnammal College for Women
- ▪ FDP on "Data Acquisition with Python", PSGRKCW
- ▪ Faculty Development Program on "Empowering Education with AI based Learning Concept for Global Competence" organized by PG and Research Department of Computer Science, Holy Cross College, Tiruchirappalli
- ▪ Virtual Faculty Development Programme on "Integration of Technology in Teaching: A Faculty Development Perspective" organized by IQAC Cell Dr.R.V. Arts and Science College

- One Week National Level Faculty Development Program on" Teaching Strategies - A Pedagogy" Mode:Virtual(Zoom Platform),organized by Department of Computer Science and Applications,SRM Institute of Science and Technology
- FDP on "AI's Role in Modern Research & Development" organized by Sree Sakthi Engineering College
- FDP on "Artificial Intelligence's Impact on Transforming Software, Robotics, Electrical, Electronics & Mechanical Fields " Series -3 from 21/7/2025 to 26/7/2025 organized by Dhaanish Ahmed College of Engineering.

Participationin Webinar

- online training/webinar on **"IEEE *Xplore*" on 26th July 2024**

Conference/Seminar/WorkshopOrganized

❖ Department Level coordinator for Two Days International Conference on Advances in Artificial Intelligence and Machine Learning "Intelligent Futures: Unmasking the Next Wave of AI and ML Innovations organized by the Department of Computational Studies, PSGR Krishnammal College for Women on 22nd & 23rd Feb 2024

Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Best Faculty – Outstanding Institutional Contribution Award	Vivekananda Institute of Management Studies	2025
Excellence in Research and Publication Award	SNS Institutions	2025
Best women Faculty Award	International Education Research & Development	2022
Vocational Service Award in recognition of the exemplary services rendered in the field of education	Rotary Club of Coimbatore Downtown	2021