

**Name** : Dr. S. Shanthini  
**Designation** : Assistant Professor  
**Department** : Information Technology  
**Qualification** : M.Sc., M.Phil., Ph.D.  
**Experience** : Teaching: 1.8 Years    Research: 7 Years  
**Area of Specialization(s)**: Networking, AI and ML  
**Email** : shanthini.s@drngpasc.ac.in



#### Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	Government Arts College, Coimbatore	2022
M.Phil.	Computer Science	Bharathiar University, Coimbatore	2015
M.Sc.	Information Technology	K.S.G. College of Arts and Science, Coimbatore	2013
B.Sc.	Information Technology	K.S.G. College of Arts and Science, Coimbatore	2011

#### Additional Qualifications

Dip. /Cert.	Area of Specialization	Institution / University / Agency	Year
Certificate	NS2	Udemy	2021
Certificate	C Programming	LinkedIn	2021
Certificate	Python	LinkedIn	2021
Certificate	Python	Udemy	2022
Certificate (CCNA)	Network Associate Cisco Routers and Switches	CISCO	2015
Certificate	Network Engineer	HCL Learning Ltd	2015
Diploma	Computer Applications	CSC Computer Education	2008

#### Publications: International / National Journals

- S.Shanthini, Dr. D. Devakumari, **“Review of Various Techniques on energy efficient, congestion control and trust-based routing in MANET”**, International Journal for Science and Advance Research in Technology, ISSN: 2395-1052, Vol. 6, Issue-2, February 2020, Pp. 21-24.
- S.Shanthini, Dr. D. Devakumari, **“RED Congestion Control with Energy Aware Auction Based Route Selection in MANET”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Vol. 8, Issue-5, January 2020, Pp. 1970-1974. (Scopus).

- S.Shanthini, Dr. D. Devakumari, **“Sealed-bid Auction based Energy Efficient Route Selection in Mobile Ad-hoc Network”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Vol. 8, Issue-3, September 2019, Pp. 7270-7273. (Scopus).
- S.Shanthini, Dr. D. Devakumari, **“An Energy Efficient Techniques in MANETs modified Trust based route selection Algorithm”**, International Journal of Pure and Applied Mathematics, ISSN 1314-3395, Vol. 119, Issue 8 Sep 2018, Pp. 3215-3221. (Scopus).
- S.Shanthini, Dr. D. Devakumari, **“A Survey on Trust Based Energy Efficient Routing in Distributed on Demand Routing for MANETs”**, International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS), ISSN 2319-1953, Vol. 7, Issue 3 May 2018, Pp. 79.
- S. Shanthini **“Auction Game Theory Based Adaptive Position Update Strategy for Geographic Routing In MANET”** International Journal for Scientific Research and Development (IJSRD), Volume - 3, Issue - 10, Pages - 932-936, 2016/1/1.
- Dr D. Devakumari, S.Shanthini, **“Energy Efficient Congestion Control and Trust based Routing Techniques for MANET using Sealed Bid Auction Game Theory”**, International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2020), Tribhuvan University, Nepal. 23, January 24th, 2020. (Springer Conference).
- S. Shanthini, Dr. D. Devakumari, **“A Review on Adaptive Position Updation Techniques used for Geographical Routing in MANET Review on Adaptive Position Updation Techniques used for Geographical Routing in MANET”**. Proceedings of the National Conference on Challenges in Computational Research and Applications, ISBN: 978-93-86176-52-3 (NCCCRA-2017).

#### Book Chapter

- **Unlocking Languages Digital Frontier a Comprehensive Review of Nature Language processing: Emerging Trends in Information Technology**, ISBN:978-81-965283-7-9; Vol I, PP 255-267; Sep 2023.
- **A Review of Economic Perspective Digitalization and Innovation Impacts Education, employment, health, and Social Policies: “India @75: Presidency of G20” An Economic Perspective** (Chapter Accepted and Waiting for publication)
- **A Comprehensive Review of Learning Rules and Architecture of Perceptron in Artificial Neural Networks: Deep Learning in Engineering, Energy and Finance: Principals and Applications**, CRC Publication (Chapter Accepted and Waiting for the publication)

### **Participation in Conference**

- International Conference on Communication and Computer Networks of the Future (COMNET 2014), PSG College of Technology, Coimbatore, 14 & 15-Mar-14.
- 2016 IEEE International Conference on Advances in Computer Applications (ICACA), Bharathiar University, Coimbatore, 24-Oct-16,
- National Conference on Advanced Computing (NCAC 2016), Bharathiar University, Coimbatore, 22 & 23-Sep-16.

### **Participation in Seminars/Workshop**

- Three-day workshop in VB.Net in K.S.G College of Arts and Science, Coimbatore, 9 to 11-Feb-10.
- National Level Seminar Entrepreneurship Awareness Camp, G.R.D. Arts and Science College, Coimbatore, 21 to 23-Jan-09.
- One-day training program on UGC- InfoNet Digital Library Consortium Effective Search Techniques, Bharathiar University, 20-Nov-13.
- National Seminar on Research Opportunities in Mobile Ad-hoc Network (NSROM 2013), Bharathiar University, 06-Dec-13.
- National Seminar on Emerging Research Challenges in Computer Science (ERCCS 2014), Bharathiar University, 28 & 29-Jan-14.
- National Seminar on Wireless Communication and Mobile Computing (NSWCMC 2014), Bharathiar University, 27 & 28-Feb-14.
- Two two-day workshops on Network Security, SNR Sons College, Coimbatore, 1&2-Mar-16.
- International Symposium at Sri Sarada college for women, Salem-16, 26-Jul-17.
- Two days of Hands-on Training Programming on Network Simulator (NS2), Kongu Engineering College, Perundurai, 4 & 5-Aug-17.
- National workshop on Predictive Analytics of Environmental Changes in Remote Sensing, PSGR Krishnammal College for Women, 22 & 23-Jan-18.
- National Level Workshop on Simulation and Emulation of Self organized Networks (SEASON-2018), Kongu Engineering College, Perundurai.

### Participation in Faculty Development Programme

- Fast publication in SCIE Journals, Top Engineers – India in association with MECHANICA'2023 IIT, Chennai. 18-Jan-24 to 19-Jan-24.
- Empowering Education with AI-based Learning Concept for Global Competence, Holy Cross College, 29-Jan-24 to 31-Jan-24.
- Tips and Tricks to crack UGC NTA NET/JRF/SET in Paper 1, Agurchand Manull Jain College, Chennai, 24-Nov-23 to 30-Nov-23.
- Cloud Infrastructure (AWS), Rajiv Gandhi Arts and Science College, Puducherry in collaboration with Brainovision Solutions India Pvt Ltd and All India Council for Technical Education (AICTE), 21 to 25-Aug-23.
- How to Write and Publish the Research Papers in Scopus/WOS/ESCI indexed Journal, Jappiaar College of Arts and Science, Chennai, 29-Jul-23.
- Open-Source Tools for Teaching and Research, Ministry of Education and Pandit Madan Mohan Malaviya National Mission on Teachers on Teaching, Ramanujan College, University of Delhi, 12 to 18-Sep-23.
- Strategic Guidance for NTA NET in Computer Applications, SRM Institute of Science and Technology, Chennai, 03 to 11-Jun-23.

### Invited Speaker / Session Chair – Conference / Seminar / Workshop

- Invited Speaker, Guest Lecture on a Digital Logic Circuit, PSGR Krishnammal College for Women, Coimbatore, 6 to 10-Mar-23.
- Invited Speaker, Guest Lecture on Data Structure at PSGR Krishnammal College for Women, Coimbatore, 31-Jul-23 to 4-Aug-23.
- Invited Speaker, Guest Lecture on Research strategies from compelling journal and survey paper composition, Kumaraguru College of Technology, Coimbatore.

### Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph.D.	-	2