Dr. Sharathkumar S

Affiliation (Assistant Professor, Dept of ISE, SIT)
Contact:9535321023
Email: skumars@sit.ac.in
Vidwan ID: **91031**
Scopus ID: 57200943369
OrcID: 0000-0001-5665-7376
Faculty ID: SITF0396

Education

	Degree	Year	Institute	Specialization
1	B.E	2006	C.I.T Gubbi, VTU	Information Science and Engineering
2	M.Tech	2009	RVCE, Bangalore, VTU	Computer Network Engineering
3	Ph.D	2024	Pondicherry Engineering College, Pondicherry University	Software Defined Networks

Professional Experience

	Date (from-to)	Designation	Organization
1	01-01-2011- till date	Assistant Professor	S.I.T Tumkur
2	03-08-2009 to 31.12.2010	Lecturer	S.I.T Tumkur

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Affiliations of Professional organizations

- AMIE

Awards and Honors

- NA

Courses Taught

Undergraduate Courses

- Finite Automata and Formal Languages
- Computer Networks
- Big Data Analytics
- System Software
- ARM Processor and Microcontroller
- Data Communications
- Information Retrieval
- C Programming
- Advanced Data Structures
- Database Management Systems
- File Structures
- Distributed Operating Systems
- Adhoc Networks
- Data Mining
- UNIX and Shell Programming

Postgraduate Courses

- Advanced Cryptography
- Ethical Hacking Laboratory

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
		NA	

Research Areas

- Software Defined Networks
- Computer Networks and Security
- Fault tolerance and Reliability

Sponsored Projects

Ongoing Projects: NA

1. Title: NA
   Funding Agency:
   Amount:
   Duration:
   Role:

Completed Projects:

1. Title: NA
   Funding Agency:
   Amount:
   Duration:
   Role:

Publications

Journals

- Sharathkumar, S., & Sreenath, N. (2022). HSPC-SDN: Heuristic Driven Self-Configuring Proactive Controller for QoS-Centric Software Defined Network.
- Sharathkumar, S., & Sreenath, N. (2025). Efficient and interactive fault tolerant, distributed SDN controller for a secured communication in a software defined network. *Multimedia Tools and Applications*, 1-37.

Conference Proceedings

- Sharathkumar, S., & Sreenath, N. (2023). Distributed Clustering based Denial of Service Attack Prevention Mechanism using a Fault Tolerant Self Configured Controller in a Software Defined Network.
- Sharathkumar S, Sreenath, N. (2022, April). Performance Evaluation of a standard reliable, fault tolerant Software Defined Wireless Sensor Network with an extended early inactive problem. In *2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)* (pp. 01-10). IEEE.
- Kumar, S. S., & Sreenath, N. (2022). A Fast Failover Technique for Link Failures and Proactive controller based Fault Recovery Mechanism in Software Defined Networks.
- Sharathkumar, S., Paul, A. J., & Sreenath, N. (2022, December). Design of Reliable Fault Tolerant Architecture and Analysis of a Software Defined Network to recover from DDoS Attack. In *2022 IEEE 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE)* (Vol. 7, pp. 206-213). IEEE.
- Satapathy, S. K., Loganathan, D., Sharathkumar, S., & Narayanan, P. (2021, March). Automated sleep staging analysis using sleep EEG signal: A machine learning based model. In *2021 International conference on advance computing and innovative technologies in engineering (ICACITE)* (pp. 87-96). IEEE.

- Satapathy, S. K., Sharathkumar, S., & Loganathan, D. (2021). Automated sleep staging using convolution neural network based on single-channel EEG signal. In *Communication and Intelligent Systems: Proceedings of ICCIS 2020* (pp. 643-658). Springer Singapore.
- Satapathy, S. K., Kondaveeti, H. K., Loganathan, D., & Sharathkumar, S. (2021). A machine learning model for automated classification of sleep stages using polysomnography signals. In *Machine Vision and Augmented Intelligence—Theory and Applications: Select Proceedings of MAI 2021* (pp. 209-222). Springer Singapore.
- Satapathy, S. K., Loganathan, D., Narayanan, P., & Sharathkumar, S. (2020, December). Convolutional neural network for classification of multiple sleep stages from dual-channel EEG signals. In *2020 IEEE 4th conference on information & communication technology (CICT)* (pp. 1-16). IEEE.
- Sharathkumar S., Jagadamba, G. (2017, September). Adaptive content-aware access control of EPR resource in a healthcare system. In *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)* (pp. 205-210). IEEE.

Book Chapters

- NA

Books

- NA

Editorial

- NA

Reviewer of Journals

- Cluster Computing
- Multimedia tools and techniques

(Please give details in IEEE format)

Editor/ Reviewer of Journal

- NA

Patents

- NA

Invited Lectures, talks and workshops

- NA