

Dr. Purohit Shrinivasacharya

Associate Professor, Dept of Information Science and Engineering, SIT

Contact: +91 9448176001

Email: purohit@sit.ac.in

Vidwan ID: 91023

Scopus ID: 55532887300

OrcID: 0000-0002-1120-7870

Faculty ID: SIT0113

Education

	Degree	Year	Institute	Specialization
1	B.E	2000	Kalpataru Institute of Technology	Computer Science and Engineering
2	M.Tech	2004	Jawaharlal Nehru National College of Engineering	Computer Science and Engineering
3	Ph.D	2015	Visvesvaraya Technological University	Faculty of Computer and Information Sciences

Professional Experience

	Date (from-to)	Designation	Organization
1	Aug. 2016 – till date	Associate Professor	Siddaganga Institute of Technology, Tumakuru
2	Aug. 2008 – July 2016	Assistant Professor	Siddaganga Institute of Technology, Tumakuru
3	Aug. 2004 – Jul. 2008	Lecturer	Siddaganga Institute of Technology, Tumakuru
4	Oct. 2000 – Aug. 2002	Lecturer	Kalpataru Institute of Technology, Tiptur

Positions held

- Assistant Controllers of Examinations
- Deputy Warden
- ISO Auditor
- Department NBA Coordinator

- Department ISO Coordinator
- Department Test Coordinator
- Department Magazine Chief Editor
- SARK Club Faculty Coordinator

Affiliations of Professional organizations

- Member of ISTE
- Member of MIE

Awards and Honors

- Best Project Award in the college.
 - “Content Based Image Retrieval using Hybrid Features”
- Best Paper Award in ICDECS-2015, Bengaluru.

Courses Taught

Undergraduate Courses

- Computer Concept and C Programming
- System Software
- Microcontrollers
- Introductions to Microprocessors
- Compiler Design
- Principles of Programming
- Unix Kernel Programming
- Operating System
- UNIX and Shell Programming
- ARM Microcontroller and Embedded Systems
- UNIX and Shell Programming
- Mobile Programming
- JAVA Programming
- Client Server Architecture
- Embedded System
- Principles of User Interface Design
- Web Programming
- Advanced Computer Architecture
- Data Structures
- Digital Image Processing
- Introduction to Microcontroller
- JAVA and J2EE

- ARM Processor and Microcontroller
- Natural Language Processing with Python

Postgraduate Courses

- Secured Programming
- Advanced Cryptography

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	Shruthi G	Secure and Efficient Public Data Integrity for Dynamic Data in Cloud Computing Environment	2024
2	Kusha K R	Development of Enhanced Secure Key Management Framework in Dynamic Mobile Wireless Sensor Networks	Thesis Submitted 2025
3	Yogesh N	Development of Python Framework for Exhaustive Machine Learning and Features Evaluation for Diagnosis of Heart Diseases linked to Acute Renal Failure Cases	-
4	Vedamurthy H K	An Artificial Intelligence System for Plant Disease Detection and Yield Prediction using Deep Learning Approach	-
5	Kavitha M	B2KE: Bilingual, Bimodal Computational Framework for Unified Knowledge Extraction	-

Research Areas

- Image Processing
- Computer Networking
- Cloud Computing
- Artificial Intelligence and Machine Learning

Publications

Journals

- Yogish M, Purohit Shrinivasacharya, Chronic kidney Disease Classification through Hybrid Feature Selection and Ensemble Deep Learning, International Journal of Statistics in Medical Research, Volume 14, pp. 109-117, 2025. (Q3)
- Kusha K R, Purohit Shrinivasacharya, EnSKM-FTOPSIS: Enhanced Secure Key Management Framework in Dynamic Mobile Wireless Sensor Networks, SN Computer Science, Vol. 5, pp. 2024. (Q1)

- Shruthi G, Purohit Shrinivasacharya, Effective privacy preserving in cloud computing using position aware Merkle tree model, Bulletin of Electrical Engineering and Informatics, Vol. 13, pp. 1424-1432, 2024. (Q3)
- Yogish M, Purohit Shrinivasacharya, Nayak N, Novel statistically equivalent signature- based hybrid feature selection and ensemble deep learning LSTM and GRU for chronic kidney disease classification, PeerJ Computer Science, Vol. 10, 2024. (Q2)
- Shruthi G, Purohit Shrinivasacharya, Secure and efficient public auditing system of user data using hybrid AES-ECC crypto system with Merkle hash tree in blockchain, Multimedia Tools and Applications, Vol. 83, pp. 72301-72320, 2024. (Q1)
- Shruthi G, Purohit Shrinivasacharya, Dynamic and Secure Public Auditing of User Data in Cloud by Using IRSAC, International Journal of Intelligent Engineering and Systems, Vol. 15, 2022.
- Prajwala Anantharamu and Dr. Purohit Shrinivasacharya, Identification and Verification of Source camera using DCT Filtering Technique, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), Vol 4, Issue 6, pp. 334-336, June 2017.
- Anjan H K, Anudeep K R, C A Revanth Kumar, Dr. Purohit Shrinivasacharya, An Android Application To Find The Sender Information Of Fraud Image Using Steganography, International Journal of Research and Advanced Development (IJRAD), Vol. 1, Issue 3, pp. 50-53, August 2017
- Purohit Shrinivasacharya and Dr. M V Sudhamani, Extraction of Texture with Wavelet Transforms and HSI Color Features Technique for Content Based Image Retrieval, International Journal of Computer Information Systems (IJCIS), Vol. 12, Issue 3, pp. 1-7, August 2016.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, WWW based Image Retrieval using Color, Texture and Shape, International Journal of Applied Engineering Research (IJAER - Scopus Indexed), Vol. 10, Issue 86, pp. 410-417, Dec. 2015.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, An Image Retrieval by Content of the Image using Color, Texture and Shape, International Journal of Applied Engineering Research (IJAER - Scopus Indexed), Vol. 16, Issue 12, pp. 12345-12356, Dec. 2014.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, An Image Crawler for Content Based Image Retrieval System, International Journal of Research in Engineering and Technology, Vol. 2, Issue 11, pp 33-37, Nov 2013.
- Purohit Shrinivasacharya, Adarsha B, Kunal Kumar, Maskale Shankar, Naveen P, Digital Image Watermarking using EMD, International Forum of Researchers Students and Academician (IFRSA), International Journal of Computing, Vol. 1, Issue 3, pp 470-475, July 2011.

Conference Proceedings

- Purohit Shrinivasacharya and Dr. M V Sudhamani, Content Based Image Retrieval System using Texture and Modified Block Truncation Coding, Proc. of IEEE, International Conference on Advanced Computing and Communication Systems (ICACCS -2013) Coimbatore, INDIA, pp. 19 – 25, December 2013.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, Content Based Image Retrieval using Self Organizing Map, International Conference on Advances in Signal and Image Processing 2012 (ICSIP-2012), Lecturer Notes in Electrical Engineering, Springer 174, pp 535 – 546, December 2012.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, Content Based Image Retrieval by Combining Median Filtering, BEMD and Color Technique, International Conference on Advances in Computing (ICAdC-2012), Springer, AISC 174, pp 969 – 975, July 2012.
- Kavitha H, Purohit Shrinivasacharya and Dr. M V Sudhamani, Ant Colony Optimization Technique for Edge Detection, International Conference on Multimedia & CBIR (ICMCBIR 2012), PESIT Bangalore, pp 53 – 59, July 2012.
- Purohit Shrinivasacharya and Dr. M V Sudhamani, Content Based Image Retrieval by Combining Median Filtering, BEMD and Color Technique, International Conference on Advances in Computing (ICAdC-2012), Springer, AISC 174, pp 969 – 975, July 2012.
- Purohit Shrinivasacharya, Kavitha H, Dr. M V Sudhamani, Content Based Image Retrieval by Combining Median Filtering and BEMD Technique, International Conference on Data Engineering and Communication Systems (ICDECS 2011), Volume 2, pp 140 – 145, December 2011.
- Kavitha H, Purohit Shrinivasacharya and Dr. M V Sudhamani, A Survey of Clustering Algorithms for CBIR Systems, National Conference on Computer Networks and Soft Computing (NCNS 2012), pp 277 – 281, 2012
- Dr. Purohit Shrinivasacharya, 3D Virtual Trial Room, National Conference on Electronics, Signals & Communication (NCESC-18), Vol. 6, Issue 13, pp. 1-4, May 2018
- Dr. Purohit Shrinivasacharya, Earthquake Data Analysis Using K-means clustering, National Conference on Advanced Research in Science Engineering and Management (NCARSEM-18)
- Dr. Jagadamba G and Dr. Purohit Shrinivasacharya, Campus Vehicle Monitoring through Image Processing, 3rd International conference on Emerging Research in Electronics, Computer science and Technology, 23rd -24th August 2018
- Purohit Shrinivasacharya Jagadamba G., Chayashree G., Campus Vehicle Monitoring Through Image Processing, Lecture Notes in Electrical Engineering, Volume 545, pp. 305-315, 2019.

- Purohit Shrinivasacharya, Jagadamba G., Chayashree G., Kumar A.V.S, Accident Factors Detection and Prediction for Indian states and district roads, 3rd IEEE 2022 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2022, pp. 970-977, 2022.
- Purohit Shrinivasacharya Jagadamba G., Jagadeeshaiah Suresh, An Automated Tool to Remove Flash Light Spots using Image Processing Techniques, 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022, pp. 1048-1053, 2022.
- Nischitha T.S, Purohit Shrinivasacharya and Dija S, Blockchain-based Cyber Forensics Chain of Custody Management with Hyperledger Fabric, 14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023, Vol. 2023-June, pp. 639-645, 2023.
- Purohit Shrinivasacharya Nagaraja B.G., Thimmaraja Yadava G, An Offline Tool to Verify Signature for Indian Languages in Digital Forensics, International Conference on Network, Multimedia and Information Technology, NMITCON 2023, pp. 1 – 6, 2023.
- Purohit Shrinivasacharya and Vedamurthy H.K, Healthcare: A Machine Learning Approach for Disease Detection using Voice Signals, Asia Pacific Conference on Innovation in Technology, APCIT 2024, pp. 1 – 7, 2024.
- Kavitha M, Purohit Shrinivasacharya, Vedamurthy H.K, Unsupervised Clustering Model for Misinformation Detection using Knowledge Base Triples and Word Embedding Techniques, Conference on Information and Communication Systems 2025 - (ICICS), Presented
- Vedamurthy H.K, Kavitha M, Purohit Shrinivasacharya, Plant Health: Early Tomato Disease Detection using Lightweight CNN Model, International Conference on Information and Communication Systems 2025 - (ICICS), Presented

Books

- Microcontroller and Application Theory, Subhas Publications, 2016

Reviewer of Journals

- Multimedia Tools and Applications

Invited Lectures, talks and workshops

- Workshop on Microcontroller and ARM Processor, 20th – 26th April, 2018, SIT, Tumakuru
- Hands on Session in Latex and Research Methodology, 20th -21st January 2017, RAO Bahadur Y Mahabaleswrappa Engineering College, Ballari
- Faculty Development Program on Plagiarism Issues and Research Methodology, 20 Feb. 2016, GM Institute of Technology, Davangere.

- VTU Sponsored One day workshop on LaTeX for Documentation, 9 Nov. 2013, GMIT, Davangere.
- National Level FDP – LaTeX and Its Applications, 6 Oct. 2013, HKBKIT, Bangalore.
- LaTeX Documentation, 26 Oct. 2013, East West IT, Bangalore.
- LaTeX Documentation, 10 Aug. 2013, SIT, Tumkur.

ATAL Workshops Conducted

- Cyber Security, 9th–13th November 2020 – As co-coordinator
- Cyber Security :Storage System Architecture and File System Forensics, 13th - 17th September 2021 – As co-coordinator
- Empowering Smart Cities with AI-Driven Edge and Fog Computing Architecture, 20th – 25th January 2025