

Dr. Prasanna Kumar K R

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Education

	Degree	Year	Institute	Specialization
1	Ph.D.	2025	MSRIT Bangalore, VTU Belagavi	Fog Computing
2	M.Tech	2004	SJCE Mysore, VTU Belagavi	Software Engineering
3	B.E	2001	KIT Tiptur, Bangalore University	Information Science

Professional Experience

	Date (from-to)	Designation	Organization
1	01-01-2011 to Till Date	Assistant Professor	SIT Tumkur
2	20-02-2006 to 31-12-2010	Lecturer	SIT Tumkur

Affiliations of Professional organizations

- Indian Society for Technical Education: Kolkatta, West Bengal, India M-153900-5

Courses Taught

Undergraduate Courses

- Cryptography & Network Security
- Network Management Systems
- Software Engineering
- Engineering Technology & Management
- Database Management Systems
- Object Oriented Modelling & Design
- Advanced Computer Architecture
- Programming in C

- Principles of Programming Languages
- Computer Organization
- Distributed Systems
- Client/Server Computing

Postgraduate Courses

- Object Techniques
- Advanced Software Engineering
- Advanced Operating Systems

Research Areas

- Fog Computing
- Machine Learning
- Internet of Things

Publications

Journals

- Fitness Sharing Chaotic Particle Swarm Optimization (FSCPSO): A Metaheuristic Approach for Allocating Dynamic Virtual Machine (VM) in Fog Computing Architecture :
DOI: 10.32604/cmc.2024.051634
Computers, Materials and Continua Open Access Volume 80, Issue 2, Pages 2557 – 2578 2024
- Effective task allocation in fog computing environments using fractional selectivity model:
DOI: <http://doi.org/10.11591/ijai.v14.i3.pp2444-2458>
International Journal of Artificial Intelligence Vol 14, Issue 3 Pages 2444-2458 June 2025
- Enhancement of QoS in Internet of Things Wearable Devices Dependent on 5G Technology
DOI : 10.1155/2023/6709109
Hindawi Wireless Communications and Mobile Computing , Volume 2023, Article Id 6709109, 9 Pages

Conference Proceedings

- An Empirical Analysis of Load Balancing Issues in Fog Computing Environment
DOI: 10.1109/ICDSIS61070.2024.10594459 2nd International Conference on Data Science and Information System, ICDSIS 2024 Hassan 17 May 2024 through 18 May 2024
- Model-based Filtering Techniques for Recommendation Systems in Healthcare Domain

DOI: 10.1109/I-SMAC58438.2023.10290568, 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2023 Kirtipur 11 October 2023 through 13 October 2023

- Deep Learning based Human Interactions using Hand Gestures and Voice Commands
DOI: 01.GIJET.9.1.29 14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023 Hyderabad 15 June 2023 through 16 June 2023
- A Novel Energy-Efficient Hybrid Optimization Algorithm for Load Balancing in Cloud Computing
DOI: 10.1109/AIKIIE60097.2023.10390196 1st IEEE International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics, AIKIE 2023 Ballari 2 November 2023 through 3 November 2023
- Wireless Level Monitoring of Interfacing Two-Tank System through User Datagram Protocol
DOI: 10.1109/ICICACS57338.2023.10099621 2023 IEEE International Conference on Integrated Circuits and Communication Systems, ICICACS 2023 24 February 2023 through 25 February 2023
- Driver Behavior Analysis Using Deep Learning
DOI: 10.1109/ICCCI54379.2022.9740778 12th International Conference on Computer Communication and Informatics, ICCCI 2022 Coimbatore 25 January 2022 through 27 January 2022
- Big data in agribusiness: Climate gauging for savvy farming
DOI: 10.1109/ICISC.2018.8398985 2nd International Conference on Inventive Systems and Control, ICISC 2018 Coimbatore 19 January 2018 through 20 January 2018

Book Chapters

- Machine Learning based Predictive Analysis and Algorithm for Analysis Severity of Breast Cancer
DOI: 10.2174/9789815136531123010008 AI and IoT-based Intelligent Health Care & Sanitation Bentham Science Publications

Patents

- AIOT BASED PANDEMIC RELATED SMART HEALTH MANAGEMENT SYSTEM FOR INDUSTRIAL WORKERS .
Patent No : 2021101013 Validity :24th Feb 2021 to 23rd Feb 2029,IP Australia

Invited Lectures, talks and workshops

- Mastering DBMS: From theory to Practice MCE Hassan on 9th July 2024
- SQL :Hands on Session : RLJIT, Dodballapura on 30th June 2024.