Faculty Profile

Brief Profile (Few Paragraphs)

A seasoned academician with 20 years of experience in academia and industry, recognized as a distinguished faculty in engineering with a stellar academic record and with a background in leading private and national engineering institutes.

Personal Information

- **Name:** Dr. Chethana R Murthy
- **Designation:** Associate Professor
- **Department:** Computer Science & Engineering
- **Email:** chethanamurthy@rvce.edu.in
- **Phone:** 080-68188200

Google Scholar / ResearchGate / LinkedIn: [Link if applicable]/ **ORCID: [Link]**

Google Scholar ID: CWjUEL4AAAAJ

ORCID iD: 0000-0001-6383-1563

LinkedIn: chethana-murthy-09533367

Domain of Expertise

Research Focus

- **Primary Area:** Green and Energy-Efficient Cellular Networks
- **Allied Areas:**
    - Software Engineering and Automation
    - Mobile and Embedded Systems

Academic Qualifications

- **Ph.D.**: CSE, VTU – Belagavi, 2018, "Analysis and Design of Resource Allocation Algorithms for Femto Cellular Networks"
- **M.Tech**: CSE, VTU – Belagavi, 2007
- **B.E.**: CSE, VTU – Belagavi, 2003

Professional Experience

Experience

S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	RV College of Engineering, Bangalore	Associate Professor	2022 to till date
2.	IIIT Dharwad	Visiting Professor	2023 – 2024
3.	RV College of Engineering, Bangalore	Assistant Professor	2012 - 2022
4.	RNS Institute of Technology, Bangalore	Assistant Professor	2009 - 2012
5.	RV College of Engineering, Bangalore	Lecturer	2004 – 2005
6.	Adichunchanagiri Institute of Technology, Chikkamagaluru	Lecturer	2003 – 2004
7.	WIPRO Technologies, Bangalore	Project Engineer	2008 – 2009
8	Honeywell Technologies, Bangalore	Trainee Engineer	2006 - 2007

Publications & Patents

Journal Publications

1. CR Murthy, C Kavitha , "A survey of green base stations in cellular networks", IRACST –International Journal of Computer Networks and Wireless Communications (IJCNWC), 2(2), April 2012, ISSN: 2250 – 3501
2. LR Bajjuri, CR Murthy, Swetha S, "Energy Efficiency of Cellular Networks–Femtocell", International Journal of Computer Networks and Wireless Communication, April 2014, 4:2, ISSN: 2250 – 3501
3. Neeraj S, CR Murthy, "Influential Factors for Cost Minimization in Big Data Processing", IJSRD – International Journal for Scientific Research and Development, 2015, 3:4, ISSN (online): 2321 – 0613
4. Vijaya P, CR Murthy, "Security Implementation in Media Streaming Applications using Open Network Adapter", Journal for Research, August 2016, 2:6, ISSN: 2395-7549
5. Manjushree V, CR Murthy, "Near-field communication and its Applications – A Review", International Journal of Latest Trends in Engineering and Technology, May 2017, 8:3, DOI: http: // dx.doi.org /10.21172/1.83.021
6. CR Murthy, C Kavitha, "Locally optimal resource allocation algorithm for dense femtocells", SPIE Proceedings 10465, Fifth International Conference on Wireless and Optical Communications, 1046509, November 2017, DOI: 10.1117/12.2287893
7. CR Murthy, C Kavitha, GS Mamatha, "Interference Avoidance Challenges in Densely Deployed OFDMA Hybrid Access Femto Cellular Networks", Journal of Electrical Engineering and Electronic Technology, 2018, 7:1, DOI:10.4172/2325-9833.1000164
8. CR Murthy, Pranay Garg, "A Study of Current State of Privacy Policies in Social Networks", Indian Journal of Science and Technology, 2019, 12:29, DOI:10.17485 / ijst / 2019 / v12i29 /146980

9. BR Kavitha, CR Murthy, "Chatbot for healthcare system using Artificial Intelligence", International Journal of Advance Research, Ideas and Innovations in Technology, May 2019, 5:3, ISSN: 2454–132X
10. Aishwarya U, CR Murthy, "Review of Single Sign–On Authentication Framework", IJMPERD – International Journal of Mechanical and Production Engineering Research and Development, June 2020, 10(3), ISSN (Print): 2249–6890
11. Thanuja M, CR Murthy, "A Selenium Based Approach to Automate Software Testing", IJMPERD – International Journal of Mechanical and Production Engineering Research and Development, June 2020, 10(3), ISSN (Print): 2249–6890
12. Shivaprasad RB, CR Murthy, "Field Programmable Gate Array with Virtualization and Dynamic Channel Allocation: An Efficient Solution for Deep Learning Algorithm", International Journal for Research Trends and Innovation, July 2022, 7:7, ISSN: 2456 – 3315
13. Sameer F, CR Murthy, "Salesforce Contact Validation using LinkedIn Sales Navigator for CRM", IJCATR – International Journal of Computer Applications Technology and Research, August 2022, 11:8, ISSN: 2319 – 8656

Conference Papers

1. CR Murthy, C Kavitha, "Locally optimal resource allocation algorithm for dense femtocells", Fifth International Conference on Wireless and Optical Communications (ICWOC – 2017), Singapore, July 7–9, 2017
2. CR Murthy, Pranay Garg, "A study of current state of privacy policies in social networks", Twelfth International Conference on Contemporary Computing (IC3 – 2019), Noida – India, August 8–10, 2019
3. CR Murthy, "Improving learning and Engagement in Programming Language Classes with Design thinking Framework", Seventh International Conference on Emerging Research Paradigms in Business and Social Sciences (ERPBSS – 2024), Dubai – UAE, May 13-14, 2024

Books/Book Chapters

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Patents [Filed / Published / Granted]

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R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

- "Design and Development of Mobile Phone Based Application for Monitoring of Inspection by SA/SO and Web Based Registration/Renewal process under Central Seed Act ", NSSO Central Silkboard, 2018 – 2021, Co-PI

Ongoing & Completed Consultancy Projects

- "Asset Tracker App Using SAPUI5" – TE Connectivity, 2013-14, Co-PI
- "webpages for IEEE International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS – 2021)", RVCE, 2021, PI

- "Design and development of software to assist Motor World Private Limited company for their in-house training and quality Enhancement" – Nandi Toyota – Bangalore, 2021 – 2022, PI
- "webpages for International Conference on Artificial Intelligence and Machine Learning in Applied Biotechnology (AIMLBIO – 2022)" – Bangalore Bioinnovation Center – Bengaluru, 2022, PI.
- "Design and development of webpages for Neend Mattress Company" – Need Mattress – Dhanya Plastics, 2022 – 2023, Co-PI

Professional Memberships

- Life member of Computer Society of India.

Awards & Recognitions

- "Identified for the contributions made in the field of mobile applications development ", Google I/O 2019 at Mountain View, California, USA, 2019
- "First Rank in the University Examination of M.Tech, CSE" – VTU Belagavi, 2018
- "Subject expert for Analysis and Design of Algorithms – Programme 12 – VTU Edusat Series" – VTU, Belagavi, 2010
- "Rashtrapati award from President of India" – Bharath Scouts and Guides, 1996
- "Rajyapuraskar award from Governor of Karnataka" – Bharath Scouts and Guides, 1994

Student Supervision

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Professional Roles

- Session chair: "National Conference on Computing Technology – NCCT- 2022", June 30, 2022, RNS Institute of Technology, Bengaluru
- Session chair: "National Conference on Computing Technology – NCCT- 2021", July 08, 2021, RNS Institute of Technology, Bengaluru
- Consultant for Manipal University and BITS-Pilani for their off-campus PG programmes (2007 to 2017)

Teaching

Core Courses: [Current semester]

- Data Structures & Algorithms
- Web Technologies
- Programming languages like C, C++, Java & J2EE, Python
- Entrepreneurship and IPR
- Theory of Computation
- Object Oriented Modelling and Design]

Advanced/Lab Courses:

- Full Stack development – Skill Labs

Professional Roles

Responsibilities

- **Academic:** Design and Analysis of Algorithms – Course coordinator, Major Project Coordinator, Project Guide, Design Thinking Lab Coordinator,
- **Administrative:** NBA – Criteria 3 Coordinator, Academic Mentor

External Connect

- Member of BoE – Global Academy of Technology - Bengaluru
- Member of BoS – PES College of Engineering - Mandya