

**ACTIVITY NAME : ONE DAY TECHNICAL TALK ON PARALLEL COMPUTING.**

**Resource Person: Dr. Geetha V**

**ASSISTANT PROFESSOR, Dept. of IT, NITK, SURATHKAL, DK,  
KARNATAKA**

**NUMBER OF PARTICIPENATS: 127 STUDENTS**

**DATE: 11-07-2021**

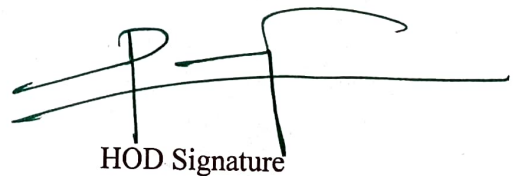
**TIME 11 AM TO 12.00 AM**

**DESCIPTION ABOUT THE PROGRAM:**

TALK on parallel computing explains about a procedure of solving computational problems by using different compute resources. In this talk students can find detailed explained about parallel computing. Final year CSE students can use parallel computing topic as seminar topic and paper presentation.



STAFF COORDINATOR Signature



HOD Signature

Professor and H.O.D.  
Department of Computer Science and Engg.  
Adichunchanagiri Institute of Technology  
CHIKMAGALUR - 577102

# GEETHA V

Official Website: <https://infotech.nitk.ac.in/faculty/geetha-v>

Assistant Professor Grade -I

Dept of IT, NITK, Surathkal, Mangaluru, DK, Karnataka, India - 575025

## WEBSITE AND INDEXING

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**Website:** <https://infotech.nitk.ac.in/faculty/geetha-v>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=55788422100>

**Publons:** <https://publons.com/wos-op/researcher/5361610/geetha-vasantha/>

**Google Scholar:** <https://scholar.google.co.in/citations?user=D61w8AsAAAAJhl=en>

## EDUCATION

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**National Institute of Technology Karnataka, Surathkal** *September 2015*

Doctor of Philosophy (Ph.D)

Department of Computer Science and Engineering

**NMAM Institute of Technology Nitte, VTU, Belagavi** *May 2004*

Master of Technology (M.Tech)

Department of Computer Science and Engineering

**KVG College of Engineering, Mangalore University** *May 1999*

Bachelor of Engineering (B.E)

Department of Computer Science and Engineering

## WORK EXPERIENCE

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**Assistant Professor Grade -I** *March 2018 - Till Date*

*Department of Information Technology*

*NITK, Surathkal*

**Assistant Professor** *March 2008 - May 2018*

*Department of Information Technology*

*NITK, Surathkal*

**Assistant Professor** *December 2006 - March 2008*

*Department of Computer Science and Engineering,*

*NMAMIT, Nitte, Karkala*

**Senior Lecturer** *April 2005 - November 2006*

*Department of Computer Science and Engineering,*

*NMAMIT, Nitte, Karkala*

**Lecturer** *April 2000 - April 2005*

*Department of Computer Science and Engineering,*

*NMAMIT, Nitte, Karkala*

## HONORS AND AWARDS

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- M.Tech Second Rank in Visvesvaraya Technological University, Belagavi
- Young Faculty Research Award – 10 Lakhs (Feb 2019 to Feb 2021)

- Elevated to Senior Member, IEEE (2020-21)
- Best paper award in Eighth International Conference on Communication Networks (ICCN 2014)

## AREAS OF INTEREST

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Computer Networks, Wireless Sensor Network, Internet of Things  
Parallel Computing, Computer Architecture, Artificial Intelligence

## SPOSORED PROJECTS

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**PI, Young Faculty Research Fellowship (YFRF) 2019-2021**, by Visvesvaraya Ph.D. Programme of Ministry of Electronics and Information Technology, MeitY, Government of India. Title: Communication Techniques for Multi-modal Data Transmission in Internet of Things. (10 Lakhs)

**PI, TEQIP Sponsored**, Title: Study on ICT Applications in Micro and Small Enterprises: Problems, Prospects and Concerns. (Rs. 95,000) (2016-17)

**PI, Seed Grant, NITK Surathkal**, Title: Wireless Sensor Networks (2008-2010)

## COURSES TAUGHT

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### Undergraduate Courses

Parallel Computing  
Computer Communication and Networking  
Mobile Computing  
Wireless Sensor Networks  
Technologies for Internet of Things  
Operating Systems  
Data Structures & Algorithms  
Computer Graphics  
Microprocessor and Interfaces  
Advanced Microprocessor Systems

### Graduate Courses

Mobile Computing  
Designing Internet of Things  
Wireless Sensor Networks  
Operating System  
Advanced Computer Architecture  
Computer Networks

## PUBLICATIONS

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### Publication in International Journals

Total 12

Geetha V, Archana Bhat, Thanmayee "IPv6 Address Compression Techniques for 6LoWPAN Header Compression". IEEE Access, [SCIE] (Accepted).

Salvi S, Vasantha G. An Optical Camera Communication Using Novel Hybrid Frequency Shift and Pulse Width Modulation Technique for Li-Fi. Computation. 2022; 10(7):110. <https://doi.org/10.3390/computation10>  
(Scopus indexed in the name of Vasantha Geetha)

Archana Bhat and Geetha V HopCount, ETX and ENERGY Selection Based Objective Function (HEE\_OF), Int. J. of Wireless and Mobile Computing (IJWMC) (Accepted)

Geetha V and Kumar Ganpati Nandan, Performance Analysis of Image Transmission for Event Detection in Cloud Based IoT Using Raspberry Pi, Journal of Advanced Research in Dynamical and Control Systems, Scopus Indexed, ISSN 1943023X , pp 4857, 2018 (Scopus Indexed)

Geetha.V and Pranesh V. Kallapur, Web Security: Research Challenges and Open Issues, Lecture notes in Electrical Engineering, Volume 121, Year 2012, Publisher: Springer, Pg 397404, (Scopus Indexed)

Pranesh V. Kallapur, Geetha.V, Web Security: A survey of Latest Trends in Security Attacks, Lecture notes in Electrical Engineering, Volume 121, Year 2012, Publisher: Springer Pg 405-415. DOI:10.1007/978-3-642-25541-0\_52 (Scopus Indexed)

Aditi Vutukuri, Saayan Bhattacharya, Tushar Raj, Shridhar, Geetha.V, "Enhanced back-off Technique for IEEE 802.15.4 WSN Standard, Networks and Communications (NetCom2013), Proceedings of the Fifth International Conference On Networks and Communications, Lecture Notes in Electrical Engineering 284, DOI 10.1007/978-3-319-03692-2\_2. (Scopus Indexed)

Geetha.V and K. Chandrasekaran, A Distributed Trust Based Secure Communication Framework for Wireless Sensor Networks, Journal of Wireless Sensor Networks, Scientific Research. Volume 6, Issue 9, pp 173183, 2014. DOI: 10.4236/wsn.2014.69017

Geetha.V and K. Chandrasekaran, TFSR: Trust Factors Evaluation Based Secure Routing Protocol for Wireless Sensor Networks, International Journal of Trust Management in Computing and Communication,(IJTMCC), Inderscience. Volume 3, Issue 1, 2015.  
DOI: <http://dx.doi.org/10.1504/IJTMCC.2015.072465>

Vikas N P, Raunak Omar, Sunil Kumar S, Aravinda, Geetha.V, Performance Enhancement of BWR Mechanism in 802.16 WiMAX Networks by Cyclic Prefix Insertion and Circularity, International Journal of Computer Networks and Wireless Communications (IJCNWC) Vol.3, No.4, pp 362369, August 2013. [www.ijcnwc.org/papers/vol3no42013/7vol3no4.pdf](http://www.ijcnwc.org/papers/vol3no42013/7vol3no4.pdf)

Geetha.V and Prof. K. Chandrasekaran, Enhanced Beta Trust Model for Identifying Insider Attacks in Wireless Sensor Networks, International Journal on Computer Science and Network Security, Vol. 13 No. 8 pp. 1420, August 2013. [http://paper.ijcsns.org/07\\_book/201308/20130803.pdf](http://paper.ijcsns.org/07_book/201308/20130803.pdf)

Geetha. V and K. Chandrasekaran, Trust factor based LEACHC protocol for Wireless Sensor Networks, International Journal of Computer Applications (IJCA), Volume 105, Issue, 18, pp 4348, 2014, DOI:10.5120/18700-9895

Geetha.V and Pranesh, Research Challenges in using Mobile Agents for Data Aggregation in Wireless Sensor Networks with Dynamic Deadlines, International Journal of Computer Applications (IJCA) 30(5):34-38, September 2011, Published by Foundation of Computer Science, New York, USA. DOI: 10.5120/3636-5079.

Geetha.V and K. Chandrasekaran, Identification of Parameters and Trust Factors for Trust based Communication in Wireless Sensor Networks", International Journal of Information Processing, Volume 8, Issue 4, pp 1-11, [http://www.ijipbangalore.org/abstracts\\_8%284%29/p1.pdf](http://www.ijipbangalore.org/abstracts_8%284%29/p1.pdf)

### Book Chapters

Geetha V, Sowmya Kamath, Sanket Salvi, "Chapter 15: Smart Home Environment: Artificial Intelligence Enabled IoT Framework for Smart Living and Smart Health", AI-Based Services for Smart Cities and Urban Infrastructure, September 2020, IGI Global, DOI: 10.4018/978-1-7998-5024-3

### Publication in International Conferences

Total 01

Total 30

Geetha.V and K. Chandrasekaran, Identification of Parameters for Trust Management in Wireless Sensor Networks, in Proc. of eighth International Conference on Communication Networks (ICCN 2014), Elsevier, 26th -27th July 2014. pp. 154-161. (Best Paper Award)

Anupama Sikchi and Geetha. V, MRPLA: Multi-hop Routing Protocol for Large Area Wireless Sensor Networks, in Proc. of eighth International Conference on Communication Networks (ICCN 2014), Elsevier, pp. 214-221.

Adarsh D K, Froila Dsouza, Chandrakanth U, Prajwal R Prasad, Geetha V, Wireless Sensor Network Simulator for Routing Protocols, in Proc. of eighth International Conference on Communication Networks (ICCN 2014), Elsevier, 26th -27th July 2014, pp. 330-337.

Geetha.V, K. Chandrasekaran, Shridhar Sanshi, Anupama Sikchi, Trust Based Centralized Low Energy Adaptive Clustering Hierarchy (LEACH-C) for Wireless sensor Network, In proc. of Second International Conference on Emerging Research in Computing, Information, Communication and Applications, by Elsevier, 1st – 2nd August 2014, pp.468-474.

Shashank P and Geetha.V, Trace Time Delay Between Base Station and Service Stations in Different Scenarios of WiMAX Networks: Using NS3, In proc. of Second International Conference on Emerging Research in Computing, Information, Communication and Applications, Elsevier, 1st – 2nd August 2014, pp. 435-440.

Geetha V, Aithal S, Chandrasekaran K, Effect of Mobility over performance of the ad hoc networks, Proceedings of 2006 International Symposium on Ad Hoc And Ubiquitous Computing pages 138-141. (Scopus Indexed)

## PROFESSIONAL ACTIVITIES

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**Reviewer**, International Conference on Next Generation Intelligent Systems (ICNGIS 2022) being organised by Rajiv Gandhi Institute of Technology and technically cosponsored by IEEE Kerala Section and IEEE Industry Applications Society and financially co sponsored by TEQIP II Vellore, Pampady, Kottayam. 29-31 July 2022.

**Resource Person**, Five Days Online Faculty Development Programme on Research Trends and Applications of IoT, 23 May 2022 27 May 2022, Organized by Department of Computer Science and Engineering SCMS School of Engineering Technology, Vidya Nagar, Palissery, Karukutty, Ernakulam 683582, Topic: Design and Architecture of IoT

**Technical Committee Member**, IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER -2021), November 19-20, 2021, NMAMIT, Nitte.

**Resource Person** AICTE Sponsored Online Short Term Training Program on Focuses on Learning the Scope of Security Aspects and Applications, 26 – 31 July, 2021. Topic: Security Aspects in Protocol Stack of Internet of Things.

**NPTEL Translation in Kannada** Translated the course files of Introduction to Programming in C, for 2.75 hours in Kannada offered by IIT Kanpur. July 2021.

**Resource Person** A five Days Online FDP on "Emerging Trends in Information Technology" 15-19th March 2021, conducted by St Joseph Engineering College, Vamanjoor, Mangaluru.

**Organizing Chair**, Eighth Edition of International Conference on Frontiers of Intelligent Computing: Theory and Applications, (FICTA 2020), 4-5 January 2020

**Reviewer, B-HTC 2020:** 2020 IEEE Bangalore Humanitarian Technology Conference, Vijapur, October 8-10,2020

**Coordinator, One week National Workshop on High Performance Computing and Applications (HPCA 2019),** 12th- 17th August 2019.

**Resource Person, FDP on Advanced Pedagogical Innovations in Higher Education & Effective E-Content Development"** 27th July 2020 to 31st July 2020. Govt Polytechnic College, Ramanagar.

**Resource Person** Four days online FDP on Network and Security, 26th May 2020 to 29th May 2020, NAMMIT, Nitte

**Coordinator, TEQIP-III Sponsored One week Workshop on Predictive Analysis and its Applications (PAA 2019)** 14th - 18th January 2019.

**Session Chair, Eighth Edition of International Conference on Frontiers of Intelligent Computing: Theory and Applications, (FICTA 2020),** 5th January 2020

**Technical Committee Member, IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER -2020),**October 30-31, 2020, SMVITM Bantakal, Udupi.

**Resource Person** for the AICTE sponsored Faculty Development Program on Emerging Trends in Medical Image Processing and its Applications at AIT, Chikmagalore, 2019

**Technical Committee Member, Smart India Hackathon 2019** at NITK Surathkal.

**Coordinator, NITK-HPE Workshop on Computer Networks** 2019.

**Coordinator, One day Workshop on Internet of Things** 2019.

**Coordinator, Two Days NITK-RDL Makeathon** 2019

**Coordinator, HP Enterprise Workshop on Experience the Power of HPC, 2019**

**Session Chair, 4th International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT-2018),**6-8 September 2018, Alva's Institute of Engineering and Technology, Moodabidri.

**Coordinator, One day workshop on Internet of Things in collaboration with Research Design Lab** 2017.

**Coordinator, One day workshop on Intel HPC Code Modernization (Parallelization),**

**Reviewer, International Conference o Emerging Trends in Engineering (ICETE 2017),** NMAMIT, Nitte

**Session Chair, National Conference on Emerging Trends and Advances in Information Technology (NCETAIT 2016),** 29th -30th January 2016, AIT Chikmagalore 2016.

**Session Chair, Second National Conference o Emerging Trends in Computer Science and Engineering (NCETCSE 2016),** 29th April 2016, BGSIT, Mandya.

## **INDUSTRY SPONSORED LABORATORIES SET-UP**

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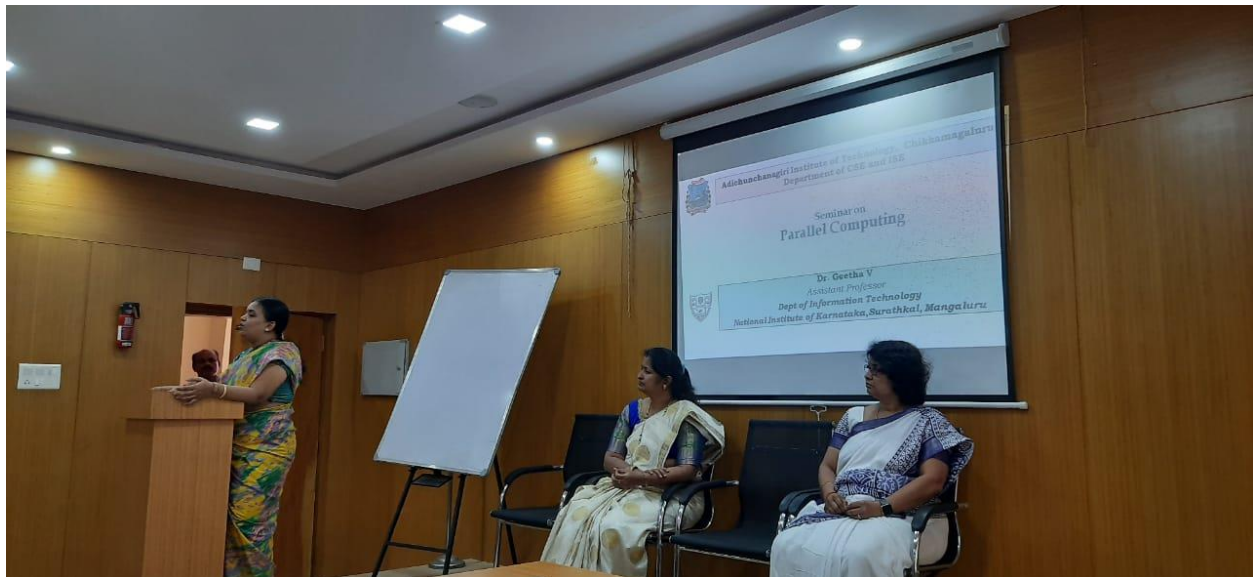
**HP Enterprise sponsored High Performance Computing Lab** (High-end Servers and switches donated by HP Enterprise, Bangalore)

**IoT and Data Analytics Lab** (in collaboration with RDL Technologies, Mangalore)

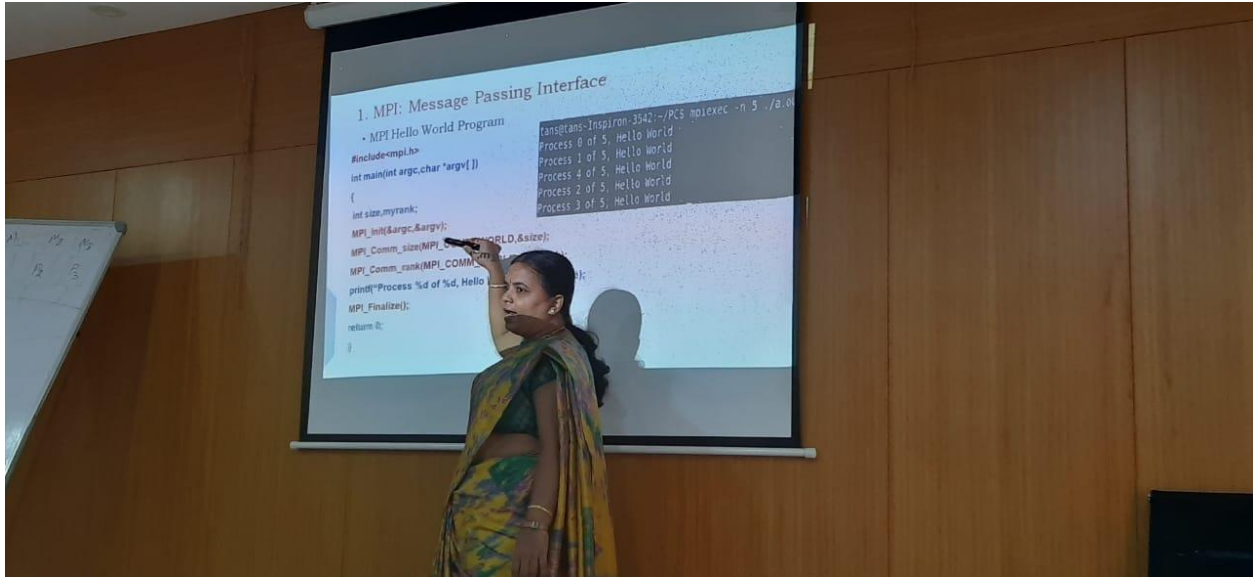
## **RESEARCH GUIDANCE**

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**ONE DAY TECHNICAL TALK ON PARALLEL COMPUTING**  
**RESOURCE PERSON: DR.GEETHA V. ASSISTANT PROFESSOR, Dept. of IT, NITK**  
**SURATHKAL,DK,KARNATAKA**



**Resource Person Dr.Geetha V, Assistant Professor, Dept. of IT, N.I.T.K Surathkal, D.K delivered**  
**One Day Technical Talk On Parallel Computing On 11.07.2021**



**Resource Person Dr.Geetha V, Assistant Professor, Dept. of IT, N.I.T.K Surathkal, D.K delivered One Day Technical Talk On Parallel Computing On 11.07.2021**





**Facilitation for Resource Person Dr.Geetha V,Assistant Professor, Dept. of IT, N.I.T.K Surathkal, D.K who delivered One Day Technical Talk On Parallel Computing On 11.07.2021**