



Dr. R. Venkatesha Prasad

Associate Professor, Networked Systems

Delft University of Technology

Profile

Dr. R. Venkatesha Prasad has been a faculty at the Networked Systems group of Delft University of Technology (TU Delft). He has supervised PhD (20+) and MSc (65+) students. He has (co-)authored 300+ publications in peer-reviewed international transactions/journals and conferences, including patents, standards and book chapters. He has been successful in acquiring and executing several European and Dutch national projects in the areas of IoT, CPS, mmWave networks, Smart-energy systems, Personal Networks, and Cognitive Radios.

Dr. Prasad received his **4TU University Teaching Qualification diploma with excellence** in 2015. Recognizing his research contributions to the field of IoT, he was selected as an **IEEE Communication Society (ComSoc) Distinguished Lecturer**, twice, during 2016-2020. He has been contributing significantly to valorizing research to practice by contributing to standards on Cognitive radios work groups and the mentor of the IEEE Tactile Internet standard. Currently vice chair of MobiNet-SC standardization group and was secretary of ComSoc standards board. He is also leading many IEEE activities through positions in technical committees (vice-chair of the cognitive networking 2013-16, 2020-22 and Green Communications and Computing 2017-2019). He is an editor of many transactions and magazines and is a regular TPC member for many conferences. He was responsible for the signing of the **MoU between Indian Institute of Science (IISc), Bangalore and Indian Institute of Space Science and Technology (IIST) and TU Delft** and he is anchoring the Indian Space Research Organization (ISRO) and TU Delft cooperations. He was the **Deputy Project Director for Lunar Zebro – a moon rover project**.

Dr. Prasad completed his **PhD from IISc, Bangalore, India in 2003**. During his PhD research, a scalable **VoIP conferencing platform** was designed. **His thesis work led to a start-up venture, Esqube Communication Solutions**. While at Esqube, Several **patent** applications and **PCT** applications were filed along with his colleagues. He was instrumental in Esqube's selection as top 100 IT innovators in India in 2006 by NASSCOM and the top 100 promising companies in Asia by RedHerring in 2008. Recently, he led a student team to win the **worldwide Airbus challenge – Fly Your Ideas (2019)**. He is a **senior member of IEEE and ACM**. He is a **Fellow of IETE**.

Academic Activities

Academic Experience at TU Delft

Tenured Faculty: <i>Networked Systems</i> (0.7 FTE)	Oct 2011 - present
Research Faculty: <i>WMC, TUDelft</i> (0.6 FTE)	Mar 2008 – Sep 2011
Senior Research Fellow: <i>WMC</i> (0.5 FTE)	June 2006 – Feb 2008
PostDoc: <i>Wireless Mobile Comm</i> (1.0 FTE)	Mar 2005 – June 2006

Supervision of Students

Post-doctorates	10	PhD students	23
MSc students	66	Bachelor students	~78 (20 projects)

Fellow IETE

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Positions

Director Member Services, IEEE ComSoc
IEEE Distinguished Lecturer
Vice Chair MobiNet-SC
Mentor P1918.1 IEEE Standards

Research Interests

Tactile Internet, (Space-) Internet of Things (IoT), Cyber-Physical Systems and mmWave Networks, Energy Harvesting IoT and LP-WAN, Internet of Robots.

Publications

Journals/Transactions	70
Peer-reviewed conferences	197
Peer-reviewed book chap.	11
IEEE standards	13
Edited books/invited articles	17
Patent (& applications)	16

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Academic Activities in numbers

Successful Project Acquisitions	17	Editorial Board of Journals (Editor, Exe. Editor)	13
Organizing Technical Workshops	33	Organizing Committees, Program Committee chair	42
Conference (Unique)TPC memberships	87	Reviewer Transactions/Journals & Conferences	101
Tutorials and Invited Talks	37	Membership of Technical Committees/Associations	23

Industry/Other Experience

Senior Design Consultant, ESQUBE, Bangalore, India (full & part time from 2006)

Jun 2003 – Dec 2009

Consultant, NorTel projects (along with PhD) CEDT, IISc, Bangalore, India

Apr 1999 - Jul 2003

Project Associate ERNET Lab, ECE, IISc, Bangalore, India

Feb 1996 - Jul 1996

Consultant TPC Energy Management, Bangalore, India

May 1995 - Feb 1996

Project Trainee Bharat Electronics, Bangalore, India

July 1993 - Mar 1994

Honours and Recognition (selected)

1. **Speaker at the Plenary with Dutch Prime Minister H.E. Mark Rutte (part of G20 conclave), 2023**
2. **Distinguished Service Award–IEEE ComSoc Technical Committee on Green Communication and Computing (2022)**
3. **My Startup ZED BV won the National Impact Challenge in the Netherlands, 2020***
4. **The best paper award, for the paper on Satellite Positioning System, ACM MOBICOM, 2020.**
5. **My Team won the finals of Airbus Fly Your Ideas competition – June 2019 (out of ~300 teams).**
6. **Selected by the External Affairs Minister of India as one of the 10 leading Indian scientists outside India to discuss/advise on “Developing Cyber Capacity of India”.**
7. **Invitee, meeting with the Indian Prime Minister, Mr. Narendra Modi when he visited the Netherlands, 2017.**
8. **Invitee, Microsoft Research Faculty Summit, 2018.**
9. **The best paper award, ACM/IEEE Internet of Things - Design and Implementation, 2018.**
10. **IEEE ComSoc Distinguished Lecturer on IoTs (1 out of 10 newly appointed DLs) in 2017 & 2019.**
11. **My moon & space projects were covered by the Dutch national TV NOS primetime news, in May 2018.**
12. **Impact: High school students could implement our ACM/IEEE IPSN 2015 work to save Hedgehogs (link).**
13. **The best paper award, IEEE PIMRC, 2009.**
14. **IEEE Outstanding Contributor Award for IEEE P1900.2 Workgroup contributions, 2008.**

Major Positions Held (selected)

1. **Director, Member Services IEEE ComSoc, 2024-.**
2. **Vice Chair, Mobinet-SC, IEEE ComSoc Mobile Networks Standards governance body.**
3. **Panel Member – on IoT Communications as part of Vaibhav summit by Government of India – Oct 2020**
4. **Advisor WISE Program (Doctoral Program for World-leading Innovative & Smart Education) of the Ministry of Education, Culture, Sports, Science and Technology, Kyoto University, Japan.**
5. **Vice-chair of IEEE P1918.1 standard on Tactile Internet and currently the Mentor.**
6. **IEEE TCCN Vice-chair (2011-2016, 2020-2022), Secretary (2009-2010).**
7. **Secretary of IEEE ComSoc Standards Development Board, 2012-2013.**
8. **Elected as IEEE CSDB Liaison for IEEE TCCC, IEEE TCCN, TCGCC and IEEE AHSNTC.**
9. **Selected as Dutch national representative to COST IC0905 (Cognitive Networks), 2009-2013.**

Editorial Boards and Conference Organizations (selected)

1. **Organizing Committee, IEEE INFOCOM, ACM MobiHoc, ICC, Globecom, VTC, EWSN, WF-IoT, CCNC, etc.**
2. **Editor IEEE Transaction on Mobile Computing**
3. **Editor IEEE Transactions on Sustainable Computing**
4. **Editor IEEE Transaction on Cognitive Communication and Networking.**
5. **Editor IEEE Journal on Selected Areas in Communications (retired).**
6. **Editor IEEE Communications Magazine (Green Communication track, retired)**
7. **Associate Editor, IEEE Transaction on Green Computing and Networking (retired)**
8. **Editor, IEEE Communication Surveys and Tutorials (retired)**

Impact

Research

The research focus is mainly on networked systems and application layer research such as Internet of Things (IoT) and Tactile Internet. The impact of research can be seen through publications at major conferences and journals, patents and many sponsored projects that were started. The research work together with students has also opened up new directions, some being the firsts in their respective domains. For instance, Space-IoT has been picked up by many startups and large organizations alike; PIR sensing with analogue data has been used for various applications; and Tactile Internet applications with new insights gained from our work. A PhD thesis elaborating on the virtualization of IoT or virtual sensing in 2016 is the precursor of what we call Digital Twins now. Many of my research work have received the best paper awards at major venues.

MSc and PhD Students

All my PhD students are placed in top academic/industry positions. To mention a few, past students have been working at IMEC, Cisco, Microsoft Research, Intel, Huawei, KPN, and LTIMindtree. Further, two of the past students have begun their startups. Many of the MSc students have got industry positions immediately after their thesis work – some joined for PhD studies, several of them joined startups and many have been working at renowned companies like Philips, NXP, Signify, BMW, etc. Recently thesis on Space-IoT was awarded the best EECS thesis in the Netherlands for 2022-2023.

PhD Research

PhD research was on VoIP, which was partly funded by NorTel Network and ADC Telecommunications projects. The research questions included scalability, resource allocation, ease of use, and auto-selection of speakers in VoIP conferencing. Further, a VoIP network stack was designed and implemented. This implementation was the first VoIP implementation in India that included scalable multiparty conferencing, user interfaces, voice mails, answering machines and PSTN connectivity. This work was one of the main pillars of an IISc (partially) owned company, Esqube Communications Solutions, Pvt. Ltd. Esqube got many accolades in India and the Asian technology arena – like NASCOM and RedHerring. My PhD was a very successful demonstration of research to valorisation. Further work at Esqube resulted in many product suites using the same VoIP stack.

Valorization

Technology demonstrations are a major and necessary steps of research in my group as we focus on networked systems research. Some research work conceptualized new applications and some developed into complete systems, which were tested with real users. Prominent outputs were modules being part of ISRO's first nano-satellites; battery-less IoT system getting the accolades by Airbus (winning a worldwide challenge) and their future product lines; and ground station support for ISRO satellites multiple times that led to building ground stations in Dubai and Bangalore. The research towards valorization helped creating startups – with TUDelft, Zero Energy Development (ZED) and Skynetics in Bangalore (as an advisor). EU Patents and PCT applications have been filed based on the systems research work.

Standardization & Policies

The results from research projects have been incorporated into standards, namely the Cognitive Radio standardization suite (P1900.x) and tactile internet (P1918.1 - I'm the mentor of the standard on Tactile Internet). The contributions to P1900.2 have been recognized with an award. Further, contributions to the first nano-communications IEEE standard were also made. Being part of the Indian diaspora, contributed to various government of India (GoI) initiatives. Provided inputs to the PMO of GoI on the development of the Cyber Capacity of India through the external affairs ministry. Further, recently presented various technology possibilities to the NITI Aayog and also provided inputs to the Technology Vision-2047 to the Department of Science and Technology, India. Participated in G20 Plenary with Dutch PM.

Collaborations

TUDelft adopted a policy to seek more Indian students and faculty (in 2007 there were only two Indian faculty members at TUDelft). As part of this goal, different engineering schools were contacted and provided with information on TUDelft. Further, a strong working relationship was developed with the Indian Institute of Science (IISc), Bangalore (2008) and the Indian Institute of Technology (IIT), Delhi and Kanpur. This activity resulted in joint PhD guidance and also joint projects. Recently, some work was done with ISRO concerning nano-satellites and an MoU with the Indian Institute of Space Science Technology has been approved by the PMO of both the countries regarding Space Cooperation. Now the Indian diaspora at TUDelft stands at more than 100 faculty members and close to 1000 students. Collaboration with IISc has resulted in publication at highly acclaimed conferences and journals. Lastly, a good working setup was established with Cognizant, Technology Solutions.

Academic activities (detailed)

Projects Awarded

On IoTs, Sensors, Energy, and Personal Networks

1. iCORE (One of the founding members, EU FP7 Project, 2 PhDs, 685k€)
2. GoGreen (IoPGencom, 1 PhD, 230k€)
3. MISCEA (Member, Implementation Work, 100k€)
4. MAGNET Beyond (with Prof. Niemegeers, 2PhDs, PostDoc, 900k€)
5. Joule Jotter (Initiated this proposal, ACM worldwide community project, US\$27000)
6. SCOTT (EU H2020, 2 PhDs, 687k€)
7. WISHFUL (EU H2020, 46k€)
8. WINLAS (EU Defense Agency, 1 PhD, 230K€)
9. Research Funding by Cognizant Technology Services (Lead, 1.6M€, 2 PostDocs, 4 PhD)
10. InSecTT (EU H2020, 2 PostDocs, 1 PhD, 923k€)
11. Take-off Grant NWO (40k€)
12. FiDAL 5G Applications (250k€)

On 5G Networking

13. SOWICI (NWO, 1 PhD, 237K€)
14. MEANS (NWO, 1 PhD (moved to TU/e), 230K€)
15. FHN (with Prof. Niemegeers, IOP GenCom, 2 PhDs+PostDoc, 800k€)

On Coordination and Support Action

16. PEDCA - Pan-European Data Centre Academy (CSA, 130k€)
17. INSTAR - International Cooperation for Digital Standardisation (CSA, 54k€)

Students Supervised

PostDocs

	Name	Research topic	Year
10	Kees Kroep	FIDAL EU Project on 5G and Tactile Internet	Current
9	Sujay Narayana	InSecTT – EU Project on IoT, AI, and ML	Current
8	Ashuthosh Simha	InSecTT – EU Project on IoT, AI, and ML (Kadet, Bangalore)	2023 (3 years)
7	Amjad Majid	Internet of Robots (Senior Researcher, Martel)	2022 (3 years)
6	Vineet Gokhale	Tactile Internet (Asst Prof U Ghent)	2023 (4 years)
5	Vijay Rao	Energy Harvesting IoT Networks (Director LTIMindTree, NL)	2019 (3 years)
4	Kishor Chandra	Tactile Internet (Asst Prof, TU Eindhoven)	2017 (2 years)
3	Javad Vazifehdan	Energy Aware Sensor Networks (ASML, Eindhoven)	2012 (1 year)
2	Xueli An	60GHz Networks Green Networks (Huawei, Germany)	2010 (1 year)
1	Jing Wang	Heterogeneous Networks (Cisco, Germany)	2010 (1 year)

PhD Supervision

	Student's name	Thesis title	Year
23	Mengyuan Li	Online Learning-based Resource Management for Cyber-Physical Systems	Current
22	Suryansh Sharma	Intelligent Robotics	Current
21	Xiande Ji	Technology for Carbon Neutrality	Current
20	Kees Kroep	Edge computing for Tactile Internet	Current
19	Sujay Narayana	Space Internet of things (Space-IoT) (Currently PostDoc, Co-Founder ZED, Cum Laude – Top 5%) 1. KHMW Kees Schouhamer Immink award for the best EECS thesis in the Netherlands for both 2022 & 23 2. ACM SIGMOBILE EECS Dissertation award for "contributions in efficient and miniaturized Space-IoT systems" (<i>international</i>) 2024	2023
18	Niloofar Yazdani	Massive-scale IoT dynamic data updating and compression for a scalable IoT infrastructure (Currently with TWTG; Top five best thesis of the year @Aarhus, DK)	2022
17	Nikolaos Kouvelas	Towards Ubiquitous and Efficient LoRaWAN: MAC-Layer Protocols and APP-Layer Coding Mechanisms for Scalable and Energy-Efficient Long-Range Wide-Area Networks (LoRaWAN) (IMEC Netherlands)	2022
16	Venkatraman Balasubramanian	Edge Computing (ASU, USA)	2017
15	Akshay Utama Nambi	Personalized Energy Services: A Data-Driven Methodology towards Sustainable, Smart Energy Systems (Microsoft Research, Bangalore)	2017
14	Vijay Rao	Ambient-Energy Powered Multi-Hop Internet of Things (Director, LTI-MindTree)	2017
13	Kishor Chandra	Towards Realizing 5G: Efficient Medium Access and Beamwidth Adaptations in 60 GHz Communications (Asst Prof TU Eindhoven)	2017
12	Chayan Sarkar	Virtualizing the Internet of Things (TCS Research)	2016
11	Bien Quang	Handoff Management in Radio over Fiber 60GHz indoor networks (currently with Vietnam Telecom)	2014
10	Stefan Aust	Advanced Wireless Local Area Networks in the Unlicensed Sub-1GHz ISM-bands (currently with NEC Japan)	2014
9	Shi Huai Zhou	Fairness and Resource Allocation in Device-to-Device Wireless Regional Area Network (European Patent Office, Rijswijk)	2014
8	T V Prabhakar	An Empirical Approach to Zero Energy Networking (Indian Institute of Science)	2012
7	Javad Vazifehdan	Energy-Aware Wireless Multi-hop Networks (Cum Laude-Top 5%) (ASML, Eindhoven)	2011
6	Jing Wang	Network Technologies for Future Home Networks using 60GHz (CISCO, Germany)	2010
5	Xueli An	Medium Access Control and Network Layer Design for 60GHz Wireless Personal Area Network (Huawei, Germany)	2010
4	Cheng Guo	Simple, reliable, scalable and energy-efficient wireless sensor networks [Startup in China]	2010
3	Yanying Gu	Personal Networks: Mobility and Clustering (KPN Research)	2010
2	P. Pawelczak	Opportunistic Spectrum Access – Designing Link and Transport Layers (Associate Prof TU Delft)	2009
1	Bao Linh Dang	Toward Seamless Networking in Indoor Environments in Millimeter Wave Bands (currently with Intel Research, Vietnam)	2008

Master of Science Thesis

	Student's name	Thesis title	Year
66	Berend Visser	Indoor Localization for Efficient Bike-Sharing Management	2024
66	Daniel van Paassen	Underwater 3D Localization and Communication for Mobile Networked Robots	2024
65	Mart Haarman	Human Body Coupled Communication using Frequency Shift Chirp Spectrum Modulation	2024
64	Nguyen Duc Huy	Adaptation of ETSI DCC for multi-lane platoons scenarios	2023
63	Rob van den Berg	Designing the Concurrent Searching and Pathfinding Algorithm for Swarm Robotics	2023
62	Ajay Keshava	Design and development of portable health and fitness monitoring system (With Karlsruhe Institute of Technology)	2023
61	Truong Luu Phu Nguyen	Building the Foundation for a Modern Tactile Internet Testbed	2023
60	Casper van der Horst	AudioLocNet: Deep Neural Network-Based Audio Source Localization for Swarm Robots	2022
59	Tamas Mayer	Haptic texture device	2022
58	Kilian van Berlo	Capturing real-time dynamic environments for Tactile Internet	2022
57	Tomas van Rietbergen	Challenging Conventions Towards Reliable Robot Navigation Using Deep Reinforcement Learning	2022
56	Deniz Yildirim	Solving Tactile Internet by Faking Physics	2022
55	David Zwart	Firmware Updates Over The Air for LoRa using Random Linear Network Coding	2022
54	Akshit Gupta	Monitoring the Health of Urban Greenery Using Terrestrial Low-cost Mobile Sensors (Cum Laude)	2022
53	Serge Saaybi	Towards a Swarm of Robots for Encouraging Desired Social Behaviors	2022
52	Meric Erceylan	Designing a fast anthropomorphic robot hand	2022
51	Koen Pelan	Towards a negative latency haptic glove, Bringing TI within reach	2021
50	Jelger Lemmers	Fingertip Haptic Texture Interface	2021
49	Maria Teresa Blanco Abad	Designing and implementing SFMAC: A MAC protocol for LoRa networks for efficient use of unlicensed bands	2020
48	Gerardo Ivan Moyers Barrera	Sensor Fusion for Localization of Autonomous Ground Drone in Indoor Environments	2020
47	Suryansh Sharma	WhirlWind - Wind Energy Harvesting Wireless System for Sensing Angle of Attack and Wind Speed (Cum Laude)	2020
46	Naveen Jakka	Emergency Braking in Platoons with Communication Loss	2020
45	Niels Hokke	A New Type Of Medium Access Control For Event Driven Energy Harvesting Devices	2020
44	Gerrit Maurice Willemsen	Multihop Transmission for Time Correlation in Energy Harvesting Networks	2020
43	Dhaval Shah	Multimodal Data Fusion for Posture Estimation of Wheelchair Users	2019
42	Himanshu Shah	Development of an attention test using the VitalSky	2019
41	Mohammad Al Rahibi	Human Activity Recognition using Channel State Information	2019
40	Joseph Verburg	How Can I Touch You?- Setting the Yardstick: A Quantitative Metric for <i>Effectively</i> Measuring Tactile Internet	2019
39	Kavya Managundi	Indoor Localization Using Thermal Sensors	2019
38	Anand Haridas	Extending the lifetime of NB-IoT devices through Energy-Harvesting techniques	2018
37	Gauri Tawade	Scalability in LoRaWAN	2018
36	Sergio Soto Munoz	Telehealth and Remote Monitoring of the Elderly, a Generic IoT Approach	2018
35	Anand Haridas	Extending the lifetime of NB-IoT devices through Energy-Harvesting Techniques	2018

34	Bontor Humala	Semi-supervised Energy Disaggregation Framework using General Appliance Models	2018
33	Kiran Sharma	Adaptation Study of Zebro as Nano Rover for Lunar Exploration and Demonstration of Locomotion on Simulated Lunar Surface	2018
32	Shruthi Kashyap	Adapting TCP/IP protocol to a Time-Slotted NFC Channel present in a Wireless Power Environment	2017
31	Duncan Lew	Integration of V2H/V2G Towards Effective Demand-Response Programs	2017
30	Renukaprasad Manjappa	Crowd Distribution Estimation using Smart Lighting Grids	2017
29	Anggrit Pinangkis	On Reduction of Beam-Searching Overhead in 60 GHz Communications	2017
28	Atul Pandaravila Biju	An Energy-Harvesting Facade Optimization System for Built Environments	2017
27	Luis A. Moreira Cardoso	Solar Powered Passive Wireless Moisture Sensor with Cloud Communication	2017
26	Nikos Kouvelas	Energy Allocation Strategies for Micro Grids	2017
25	Alexander de Moes	AirLoc: Pedestrian Dead Reckoning for Passenger Localization	2017
24	Paul Marcelis	Frame Loss Characterization and Data Erasure Coding for LoraWAN (<i>Young Talent in the Netherlands award for his thesis (Runnerup)</i>)	2016
23	Rizqi Hersyandika	Characterization of Human Blockage in 60GHz Communication	2016
22	Henrik John	Enabling Localization based services using wearable and handheld	2016
21	Luis Alfonso Gonzalez Godinez	Micro Activity Recognition using Wearables for Human Augmentation	2016
20	Eloi Garrido Barrabes	Opportunistic Routing for Indoor Energy Harvesting WSNs	2016
19	Arpan Govindraj	Sensing Locations: Occupancy Sensor Data Driven Automatic Determination of Sensor Locations	2016
18	Andres Moreno	Design of a real-time micro-winch controller for Kite-Power Applications	2015
17	Xin Wang	Topology Control in Energy-Harvesting Wireless Sensor Networks	2015
16	Antonio Reyes Lua	Location-aware Energy Disaggregation in Smart Homes (Cum Laude)	2015
15	Sujay Narayana	Orchestrating Mixed-Criticality Melody: Reconciling Energy with Safety for Mixed-Criticality Embedded Real-Time Systems	2015
14	Jan Jaap Treurniet	From Check-in/Check-out to Be-in/Be-out: BLE-based Automated Journey Payment in Public Transportation (Cum Laude)	2015
13	Arjan Doff	Sensor-Assisted Movement Identification and Prediction for Beamformed 60 GHz Links	2015
12	Zhongxian Pan	Resource Allocation in Cognitive Radio Networks	2014
11	Prasanna Gururaj	VoIP support in LTE networks	2012
10	Preethi Prada	BOSCH: Wireless Network Tuning for Real-time Applications	2012
9	Pavan Gaonkar	TomTom: File Updates in V2V Networks	2012
8	Shruthi D	Neighbor Discovery in Energy Harvesting WSNs	2012
7	Ke Dong	Clustering in Wireless Networks	2011
6	Zhao Yukun	Human Mobility Models	2010
5	Hani Dabbagh	Free-space Optical Emulator for 60 GHz directional antenna equipment	2009
4	Vijay S	Allocation of Opportunistic Spectrum for Cognitive Radio Ad hoc Networks (Cum Laude)	2009
3	Yiyu Zhao	Performance study of scheduling algorithms for WiMAX Networks	2007
2	Yanying Gu	Clustering for Personal Networks	2006
1	Yonghua Li	FEW PeaNets: A Framework for Emulation of Wireless Personal Area Networks	2006

Education

Degree/Diploma	Institution/University	Year	Grade
4TU University Teaching Qualification	TU Delft, the Netherlands	2014	“Excellent”
Ph.D	Indian Institute of Science, Bangalore, India	2004	NA
M. Tech (Industrial Electronics)	Mysore University (S. J. C. E Mysore)	1994	Distinction
B. E. (Electronics & Communication)	Mysore University (M. C. E Hassan)	1991	Distinction

Theses

Ph.D Thesis: *A New Paradigm for Audio Conferencing on Voice Over IP (VoIP)* – Indian Institute of Science, Bangalore, India, 2003. Committee: Prof. H S Jamadagni (IISc), Prof. Martin Vetterli (EPFL), Prof. Vishveshwaran (IIT Delhi)

This work involved the following aspects: (a) Design of a novel distributed audio conferencing architecture; (b) System design and building of various servers and clients for the conferencing support on IP networks; (c) Analysis of the real-time packets and designing the systems accordingly; (d) Conceiving various algorithms for the automatic selection of participants; (e) Studying behavioural aspects of humans in a conference; (f) Simple Voice Activity Detection algorithms; and (g) Building the prototype system and testing them. The work also involved indigenous conferencing protocol design since SIP had no distributed conferencing support when the work was carried out. The work was completely executed and demonstrated with the help of a prototype.

Master’s project: *Scaled Down Model of an S-Band Coupled Cavity Traveling Wave Tube (TWT) Power Supply* - Bharat Electronics Ltd., India, 1994.

TWT used in Radars needs a high power ripple-free DC voltage (45KV, 26KW). The power supply model was developed at Bharat Electronics, Bangalore, India. In this project, I modelled a Resonant Mode DC-DC Converter to avoid high power spikes. Since the power involved is in the order of tens of KW, SCRs were used as the switching devices. To find the values of the L and C of the tank circuit, a mathematical model was developed along with a numerical iterative algorithm to fix the values of L and C. A *Pspice* simulation a scaled-down 0.5KW converter was built and tested successfully.

Undergraduate project: *Microprocessor based Real Time Voice Encryption* - MCE, Hassan, India, 1991.

This project was intended to protect voice transmission for military and intelligence purposes against possible intrusion through encryption. A pilot system was developed using the 8085 Microprocessor. The voice signals were digitized and then encrypted digitally. A simple algorithm for encryption was developed. A USART-based serial transmission and reception were also implemented as part of the project to test and demonstrate the ideas proposed in the project.

Teaching and Lectures

Courses Offered

1. Instructor for MSc course on Ad Hoc Networks and Sensor Networks (TU Delft, 2022 - Present).
2. Instructor for MSc course on the Advanced Internet of Things (TU Delft, 2020 - Present).
3. Instructor for MSc course on Ad Hoc Networks (TU Delft, 2013 - 2021).
4. Instructor for MSc course on the Internet of Things (TU Delft, 2013 - 2019).
5. Instructor for MSc course on Telecommunication Engineering (TU Delft, 2013).
6. Instructor for BE courses at MCE, Hassan, India, 1992

- (a) Computer Networks
- (b) Digital Circuits

7. Innovation in Teaching Courses:

- (a) <http://www.icto.tudelft.nl/nl/icto/nieuws/artikel/detail/it-for-teaching-msc-course/>
<https://www.youtube.com/watch?v=sjXSGBliaU&feature=youtu.be>
- (b) <https://www.youtube.com/watch?v=O6wzeczNieA&feature=youtu.be>

(OR)

8. Guided 18 Bachelor Projects (~78 students).

Lectures

1. A Course on TCP/IP for Engineers from British Physical Laboratories (BPL), Bangalore, October 2000.
2. Continuing Engineering Education Programme (CEEP) course on VoIP at CEDT, IISc, Bangalore, for participants from academic institutions and industry, September 2002.
3. Lectures for students at the Dept. of Electrical Engineering, IISc, Bangalore on VAD and Personal Networks, 2008.
4. Cognitive Radio Networks – Guest lecture TU Delft (Ad hoc network course, 2010-2011).
5. Energy Harvesting in WSNs - Guest lectures TU Delft (Ad hoc network course, 2012).

Other Academic Activities (Reviewer & Examiner)

1. Served on 45 MSc Thesis Examination Committees at TU Delft, (2005-2024).
2. Reviewer, Canada Foundation for Innovation, 2019
3. Reviewer, Project Proposals of EU Next Generation Internet (NGI)-2020.
4. Invited to Project Review Panel, Natural Sciences, and Engineering Research Council of Canada (NSERC) Discovery Grant proposals, 2017 & 2018.
5. Project Reviewer, Academy of Finland Natural Sciences and Engineering Research, Finland, 2017.
6. Project Reviewer EU FIESTA Calls, 2016.
7. Invited to Project Review Panel of Research Foundation Flanders (FWO), Belgium, 2016.
8. Textbook Proposal reviewer, Morgan Kaufmann 2015.
9. Project Reviewer, H2020-TWINN-2015.
10. Board of studies for M.Tech program in Communication Engineering and Signal Processing, Amrita Vishwa Vidyapeetham, Amrita University, 2014.
11. Springer Journal on Green Communication, Proposal reviewer, 2013.
12. Invited as a Juror for the Pirelli Innovation Award 2008.
13. Project Review Panel of Science Foundations of Ireland 2007.
14. Deputy Work Package Leader of WP2 – MAGNET Beyond project, 2006.
15. Developed Microprocessor Lab Primer for BE students of the state of Karnataka, 1992.

Bachelor's Projects Supervised

1. Fake force feedback for Telemanipulation
2. Faking Physics for Tactile Internet
3. Tactile Internet Applications
4. Video Support for Tactile Internet
5. Single Anchor Localization
6. Poorman's LiDar
7. Metaverse payment based on Crypto coins
8. Automated Card Payment Testing.
9. Development of a software system for connecting Zigbee devices to an IoT gateway.
10. Video Mail plug-in for Browsers.
11. Voice Activity Detection.
12. Multiport Data Acquisition System.
13. Integral Cycle Control of Power (using 8085).

14. Energy Monitoring System (using 8085).
15. Constant Firing Angle Triggering circuit for a variable frequency converter.
16. Industrial Process control.
17. Telephone to IP Gateway.
18. Networking of 8085 Microprocessors using Interrupt Controller and UART.
19. AC Link Inverter

Professional Achievements & Activities (detailed)

Honours, Recognitions and Awards

1. Fellow of IETE, 2018.
2. Senior Member of ACM.
3. Senior Member IEEE and IEEE ComSoc, IEEE Computer Society, IEEE Vehicular Technology Society.
4. Invited for a discussion and to offer a talk on possible use of IoTs at **the Niti Ayog, Govt. of India, Delhi**, Aug 2023.
5. Invited to the **Plenary with Dutch Prime Minister H.E. Mark Rutte** (part of G20 conclave) 2023.
6. **Distinguished Service Award**–IEEE ComSoc Technical Committee on Green Communication and Computing (2022).
7. My Startup **ZED BV won the National Impact Challenge in the Netherlands, in 2020.**
8. The best paper award, ACM MOBICOM (2020).
9. My Team wins the finals of the Airbus Fly Your Ideas competition – June 2019 (out of 300 teams).
10. **EU StandICT Award** for Representing EU and Attending IEEE Standards Meeting, 2019.
11. Invited to attend Microsoft Faculty Summit 2018.
12. The best paper award, ACM/IEEE Internet of Things - Design and Implementation (2018).
13. My work (with students) on TUDelft's moon & space projects was covered by the Dutch national TV NOS primetime news, May 2018.
14. Selected by External Affairs Minister of India as one of the 10 leading Indian scientists outside India to discuss/advise on "Developing Cyber Capacity of India".
15. I was invited by the *Indian Prime Minister, Mr Narendra Modi* when he visited the Netherlands.
16. Best paper runner-up award, ACM/IEEE Internet of Things - Design and Implementation (2017).
17. IEEE ComSoc Distinguished Lecturer on Internet of Things (1 out of 10 newly appointed) in 2017.
18. **Impact:** High school students could implement our ACM/IEEE IPSN 2015 work for saving hedgehogs ([link](#)).
19. Awarded Grassroots Prize (two times) for innovations in teaching 2015, 2016.
20. IEEE Bangalore section – Publication award 2014 & 2015.
21. Selected for IEEE Public Visibility Initiative – My interview and Article on IoT (2014).
22. Covered by IBC News under the heading, Invisible Network of the Future, 2014.
23. Recognition by IEEE for contributions to the IEEE ComSoc Standards Program Development, 2014.
24. Invited to Dagstuhl seminar on *Physical Cyber Social Computing*, 2013.
25. Award for IEEE P1900.5 Workgroup contributions, 2012.
26. Our article in *IEEE Communication Letters*, "An Analytical Energy Consumption Model for Packet Transfer over Wireless Links", was selected as the top 0.5% of papers IEEE ComSoc in Feb 2012.
27. Best paper award, IEEE PIMRC, 2009.
28. IEEE Outstanding Contributor Award for IEEE P1900.2 Workgroup contributions, 2008.
29. First place for DC Motor drive and consolation prize for AC Motor Drive in Karnataka state level, India, for 'Do It Yourself' competition at S.J.C.E, Mysore, India, 1993.

Editorial Boards

1. Editor, IEEE Transaction on Mobile Computing 2019-
2. Editor IEEE Transactions on Sustainable Computing
3. Editor IEEE Surveys and Tutorials, 2014-2021.
4. Editor IEEE Systems Journal, 2018-2022.
5. Associate Editor, IEEE JSAC on SDN and Network Virtualization, 2018-2019
6. Editor IEEE Transaction on Green Communication Networks, 2017-201
7. Editor IEEE Transaction on Cognitive Communications and Networks, 2019-
8. Guest Editor Special Issue on Green IoT, IEEE Transaction on Green Communication Networks
9. Editor IEEE Communications Magazine, Green Track, 2015-2018.
10. Guest Editor Research to standards Next Generation IoT and M2M Applications Networks-and Architectures, IEEE Communications 2016.
11. Associate Editor, Transaction on Emerging Telecommunication Technology, 2011-2017.
12. Editor Elsevier-Journal on Networking and Computer Applications, 2015-2018.
13. Editor Elsevier-Communication Networks, 2017-2018.
14. Editor for the IEEE Communications Society Communications Technology (CTN).

PhD Thesis Examination Committee

1. Mr. Ramachandra Budhihal, "Unified Cognitive Radio Architectural Analysis, Design, and Implementation" Indian Institute of Science, Bangalore, India.
2. Mustafa Moussa, Flood and Traffic Wireless Monitoring System for Smart Cities, KAUST, Saudi Arabia
3. Nahina Islam, Energy efficiency in wireless communication, RMIT, Melbourne, Australia.
4. Reema Sharma, Modeling and Analysis of Dynamic Packet Scheduling Scheme in Internet of Things, VTU, India.
5. Suma K V, Analysis of Nailfold capillary morphology for diagnosis of Type 2 Diabetes Mellitus and hypertension in Indian Population, VTU, India.
6. Chaudhuri Manoj Kumar Swain, A Study on Development of Path loss Modelling Schemes and Coverage Analysis for a Broadband Wireless Access Network, National Institute of Technology, NIT, Rourkela.
7. Smita Pallavi, An Integrated Business Intelligence Framework To Support Olap Mining Applications In Educational CRM, BIT, Patna, India.

Memberships, Positions, Standards Activities

1. Fellow, IETE
2. Senior Member of ACM
3. Senior Member IEEE and IEEE ComSoc, IEEE Computer Society, IEEE Vehicular Technology Society.
4. IEEE Standards Association Member.
5. Non-voting member, IEEE ComSoc Standards Development Board.
6. Member of IEEE ComSoc Mobile Networks Standards Governing Committee (MobiNet-SC) 2018-current.
7. Member IEEE Standards P1920.1, 2020 –.
8. Member IEEE Standards P1931.1, 2017– .
9. Member IEEE Standards on Nano cCommunications, P1906.1, 2014–2018.
10. **Advisor WISE Program** (Doctoral Program for World-leading Innovative & Smart Education) **of the Ministry of Education, Culture, Sports, Science and Technology, Kyoto University, Japan.**
11. **Mentor** for IEEE P1918.1 standard on Tactile Internet 2018-current.
12. Vice-Chair IEEE P1918.1 standard on Tactile Internet, 2016-2018
13. Member of Examination Committee, CE & CS, and CS & ES, EEMCS, TU Delft, (2013-present).

14. Vice-chair for Standards, IEEE TCGCC 2017-2020.
15. Member IEEE ComSoc Education Services Board (2018-2021).
16. Elected as IEEE ComSoc Standards Development Board Liaison for IEEE TCCC, IEEE TCCN, TCGCC and IEEE AHSNTC, 2017.
17. Member of IEEE ComSoc Standards Program Development Board, 2015-2017.
18. Member IEEE FiWi Sub-TC 2016-2018.
19. Member IEEE TCIIN, from 2016.
20. Member IEEE TITC, from 2016
21. Elected IEEE TCCN Vice Chair (Europe) 2011-2016, 2018-2020.
22. Member IEEE-SA Rapid Standardization Taskforce on 5G and SDN, Berlin, 2016.
23. Member IEEE-SA Rapid Standardization on Taskforce IoT New Jersey, 2014.
24. Secretary and Member of IEEE ComSoc Standards Development Board, 2012-2013.
25. Member IEEE-SA Internet of Things Ecosystem Study, New Jersey, 2014
26. Member – IEEE DySPAN (2011-) & IEEE SCC41, Standards Coordination Committee (2005-2011).
27. IEEE P1723 standards on SOA (2012).
28. Member of ECMA PN Standardization workgroup, (2011).
29. Elected IEEE TCCN Secretary 2009-2010.
30. Member of Standards on – IEEE SCC41 Policies and Procedures Subgroup, Web-master of SCC41, DySpan-SC, 2010-current.
31. Selected as Dutch national representative to COST IC0905, 2009-2013.
32. Member of the *Society of Industry Leaders - Standard & Poor's Vista Research*, 2009 (by Invitation).
33. Member – Open Spectrum Alliance (OSA) (by Invitation).

Tutorials, Invited Talks, Demonstration

1. Keynote, IEMERA – Intelligent Energy Management, Electronics, Electric & Thermal Power, Robotics and Automation, Oct 2020 – Murphy Loves CI.
2. Tutorial, IEEE CCNC 2020 – IoT Systems And Smartness – Virtualization, Protocols, Intelligence And Proof Of Concept.
3. Keynote, IEEE ATNAC, New Zealand, Nov 2019 – Improving CI through Destructive Interference.
4. IEEE Distinguished Lectures at three universities in New Zealand, Nov 2019 – Improving CI through Destructive Interference.
5. Invited Lecture, Indian Institute of Information Technology(IIITB), Bangalore, Aug 2019 – *Understanding and Improving the Performance of Constructive Interference Using Destructive Interference in WSNs.*
6. Tutorial, IEEE CCNC 2019 – IoT Systems and Smartness, Virtualization Protocols Applications and Big Data.
7. IEEE Distinguished Lectures at three universities in Srilanka, 2018 – *IoT and Applications.*
8. IEEE Distinguished Lectures at Four universities in New Zealand, 2018 – *Internet of Things, Approximate Services and Virtual Sensing.*
9. Keynote speech IEEE Edgecom, 2018 – *Constructive Interference – Does it Really Exists?*
10. Invited Talk, Rotary Club International, Bangalore, India, 2018 – *Internet of Things Applications.*
11. Tutorial, IEEE CCNC 2018 – IoT Systems and Smartness – Virtualization, Protocols, Applications and Big Data.
12. Keynote at IEEE SCIoT, Iran, 2018 – *Low Latency Low Energy Cost Data Collection in Sensor Networks.*
13. One of the panel members along with Dr Jie Liu (Microsoft Research), Prof. Prabal Datta (UCB) and others for “New directions” at ACM SenSys, Nov. 2017.
14. Keynote IEEE ISCC, Greece, 2017 – *Murphy Loves Constructive Interference*
15. IEEE Distinguished Lectures at three universities in Srilanka, 2017 – *Introduction to IoT*

16. Keynote Speech at UBIcNET, Bangalore 2017– *Murphy Loves Constructive Interference*.
17. Tutorial, IEEE CCNC 2017 – Interference Virtualization of Internet of Things (IoT) and Big Data Paradigm in Consumer Applications.
18. Panel talk for Young Scientists and Engineers (IEEE-YES), IEEE GlobeCom-2016, Washington DC – *Academic Life Goals*.
19. Speaker at EE and CE Education afternoon, 2016 – *How to Get and Give Feedback using FeedbackFruits*.
20. Demo – Fine-tuned Lighting Control Leveraging Smartphone-based Occupancy Detection, International Conference on Embedded Wireless Systems and Networks (EWSN), ACM, 2016.
21. Keynote speech, International Conference on Intelligent and Autonomous Systems, Hassan, 2015 – *Internet of Things- What else?*
22. IEEE Distinguished Lectures at (a) BMSCE, Bangalore, 2015; (b) Amrita College of Engineering, 2016; (c) MCE Hassan, 2016 – *IoT & Applications*.
23. Tutorial, IEEE CCNC 2016 – Internet of Thing (IoT) and Big Data Paradigm in Consumer Applications.
24. Keynote speech Workshop on 5G Internet of Things (IoT) jointly with 25th GISFI Standardization Series Meeting (GSSM) 2015 – *Various Aspects Internet of Things Design*
25. Tutorial, IEEE CCNC 2015 – Internet of Thing (IoT) and Cloud Based Paradigm in Future Consumer Applications.
26. Invited Talk Technology for Concept Design, IDE, TU Delft 2015 – *IoT Application Design*.
27. Distinguished Lecture in 3ME, TU Delft, 2015 – *Internet of Things and Energy*.
28. Keynote Speech CYCLONE, IoT360, Rome Oct 2015 – *IoT Applications and Approximate Services*.
29. IEEE GlobeCom-2015 Lightning Talk, San Diego – *Non-Sense!*
30. Tutorial, IEEE CCNC 2014 – Internet of Things (IoT) Paradigm in Consumer Applications.
31. Invited IEEE ComSoc Talk at New Jersey Institute of Technology, NJ, USA, 2013 – *Approximate Services in the Internet of Things*.
32. IEEE GlobeCom-2012 Lightning Talk, Anaheim – *Approximate Services*.
33. Invited speaker IEEE ANTS-2012, Bangalore, – *iCore - Internet Connected Objects for Reconfigurable Ecosystem*.
34. Keynote Speaker – IEEE-ACM WINBIS, Katmandu, Nepal, 2009 – *Personal Networks*.
35. Online Person Tracking System, MobiHoc 2016 [Demo]
36. Demonstration of the VoIP-testbed developed at CEDT, IISc, Bangalore, to members of the Communication Software Industry and venture capital members. This helped in the establishment of the start-up firm Esquebe Communication Solutions Pvt. Ltd. in 2003.
37. Lab demonstrations for a workshop on “A Course on Internet Telephony” conducted by Dept. of ECE, IISc, Bangalore, 2002.

Organizing Committees and TPC Chairs

1. TPC Chair WF-IoT 2021.
2. Tutorial Chair, WF-IoT 2020.
3. Tutorials Chair Globecom 2019.
4. Juror, Selection Committee, IEEE Student Competition on *Communication Technology Changing the World*, 2014-2020.
5. Symposium on Green Communication and Networking, Chair ICC 2020.
6. Tutorial Chair, WF-IoT 2019.
7. Steering Committee, WF-IoT, 2019.
8. Organizing committee member, ACM MobiHoc-2013-2019.
9. Publicity Chair ACM MobiHoc 2013-2019.
10. IEEE INFOCOM Demo & Poster Chair 2018, 2019.
11. Student Travel Chair MobiHoc 2019.

12. UBICNET TPC Chair 2017, 2018, 2019, 2023.
13. General Co-Chair, UBICNET 2020.
14. Best Paper Award Chair CCNC 2017, 2018, 2019, 2020, 2021.
15. IEEE SmartNets 2018 - Industry 4.0 Track chair.
16. IEEE SECON Student Travel Grant Chair, 2014-2019.
17. Organizing Committee Member, Publicity Chair, IEEE ICC, Kansas, 2018.
18. Demos and Poster Chair MobiHoc, 2018.
19. Industry Track Chair, WF-IoT, 2018.
20. Organizing Committee Member, Publicity Chair, IEEE GlobeCom, Singapore, 2017.
21. Track Chair, Consumer Communication & Networking Standards, IEEE CCNC, LasVegas, 2015-2016.
22. Organizing Committee Member, Tutorial Chair, Demonstration Co-Chair and Publicity Chair of IEEE CCNC, Las Vegas 2009 - 2017.
23. Organizing Committee Member, Green Track Chair, IEEE GlobeCom, Washington DC, 2016.
24. Student Travel Grants Chair, IEEE GlobeCom, Washington DC, 2016.
25. TPC Chair, Telecom Policies Development of Global Access, GIIS 2016 conference.
26. Track Chair *IEEE* CSCN 2016.
27. TPC Chair Telecom Policies and Development of Global Access, track, GIIS conference 2016.
28. Publicity Chair WF-IoT, 2015.
29. Publicity Chair IEEE CCSNA, 2013, 2015, 2016.
30. Organizing Committee Online GreenCom 2015 & 2016.
31. General Chair STEMCOM 2015.
32. Technical Program co-Chairs, Green Standardizations and Industry Issues for ICT and Relevant Technologies (GSICT), Globecom 2015.
33. Organizing Committee Member, Tutorial Chair, IEEE GlobeCom, San Diego, 2015.
34. Publication co-Chair, IEEE CSCN, Tokyo, 2015.
35. Publicity Chair IEEE WCNC, 2015.
36. IEEE Globecom-CRN Track Chair, 2015.
37. IEEE CSCN- Publications Chair, 2015.
38. TPC Chair, 21st IEEE Symposium on Communications & Vehicular Technology (SCVT), Delft, 2014.
39. Steering Committee, iC3I, New Delhi, 2014.
40. Publication and EDAS Co-Chair, IEEE CCSNA, GlobeCom, Austin, 2014.
41. Organizing committee member, Publicity Chair ACM MobiHoc, Bangalore, 2013.
42. IEEE VTC-CRSS Track Chair, 2013.
43. Organizing Committee Member, Publication Chair, COMSWARE, Dublin, 2009.
44. Late Breaking Results Committee Associate Chair SIGCHI, 2004

Workshops Conducted

1. Co-founder, Steering Committee, IEEE Next Generation Green ICT Workshop ICC-2016 Kuala Lumpur.
2. Co-founder, TPC Chair and Organizing Committee Member, IEEE Next Generation Green ICT Workshop ICC-2015 London.
3. Co-founder, TPC Chair and Organizing Committee Member, IEEE E2Nets: Workshop on "Energy Efficiency in Wireless Networks and Wireless Networks for Energy Efficiency (E²Nets)", ICC-2010 Cape town, ICC-2011 Kyoto, ICC-2012 Ottawa, ICC-2013 Budapest, ICC-2014 Sydney.
4. Co-founder, Steering Committee and Organizing Committee Member, TPC Chair for IEEE Personalized Networks Workshop, San Jose 2006, Philadelphia 2007, Las Vegas 2009 - 2012.

5. Co-founder, TPC Chair and Organizing Committee Member, IEEE CogNet: Workshop on “Towards Cognition in Wireless Networks”, ICC-2007, Glasgow, ICC-2008 Beijing, CogWiNets ICC-2009, Dresden.
6. Organizing Committee Member, Publicity Chair – Mobicare, Mobile Health Care Workshop, Mobiquitous, Toronto, 2009.
7. Co-Chair and Organizing Committee Member, Workshop WILLOPAN: Wireless Personal and Local Area Networks, COMSWARE, Bangalore, 2008.

Projects Executed (selected)

As a senior design consultant at Esqube Communication Solutions (P) Ltd. Bangalore, India (2003-2009)

1. CQube is a ‘click to talk’ application for enabling websites with interactive voice and video.
2. VoIP Player for decoding and playing back the voice data after snooping VoIP packets from the Internet.
3. VQube - a VoIP application suite.
4. Flash Player for enabling websites with text, voice and video communications.
5. CallBack facility for portals bringing PSTN and Web together.
6. PSTN Phone aliasing and Anonymous dialling applications.
7. PSTN Conferencing Solution with Web Interworking.
8. SIP-based PSTN Callback service.
9. PSTN-Web enabled Voice Mail service.

As a Project Associate & Consultant at CEDT, IISc, Bangalore (1999-2003)

1. Large Scale Conferencing System and Protocol design.
2. Design of value-added services on a VoIP conferencing suite and VoIP testbed.

As a trainee (BEL) and project associate (ERNet)

1. Development of Switched Mode Power Supplies and High power Resonant Converters for Radars (1994).
2. Design of high-frequency magnetic components and high-voltage and High-Frequency Power Supplies (Project Tempest for Indian military) at Bharat Electronics, Bangalore (1994).
3. Implementation of DQDB protocol cards (1996).

Extra-Curricular Activities

1. **Organising Committee member** during 1997 – 1998, and **Secretary, Samskrita Sangha**, a Cultural Organization at IISc, Bangalore, during 1998- 1999. <http://www.iisc.ernet.in/ssangha/>
I was involved in leading a team of *ten* members in conducting/organizing cultural programmes that reflected Indian Heritage and Culture.
2. **Member, Students Advisory Committee (SAC)** to the Director, IISc, Bangalore, for *two* years during 1999 and 2000.
This committee represents the students of the Institute; I was involved in academic affairs. I was also involved with relief activities under the Students’ Council during the Orissa Cyclone and Gujarat Earthquake.
3. **President - Mess Committee**, IISc Hostels, during June 2000-Dec. 2000
I was responsible for the smooth running and maintenance of the Messes catering to about 1500 students. The mess committee is an interface between Workers, Students and the Wardens/Authorities. As a mess president, I led a team of about *twelve* members team and was responsible for handling a budget of rupees Rs.1.5M per month.
4. **Member - Core-Committee and Treasurer, Prasthutha**, - a Students’ Forum of IISc, during 1999-2002; <http://www.iisc.ernet.in/prasthu/>
I was part of a four-member team building this organization. We were involved in arranging lectures/debates by eminent personalities on various issues - Scientific, Social and Cultural. I was holding the additional duties of *Treasurer*, responsible for generating funds for all our activities and maintaining accounts from 1999 to 2000.

5. **Member - Department Curriculum Committee (DCC)** of CEDT, IISc, during 1998-2002.

I was responsible for representing research students of the department and acting as a buffer between students, the chairman, and the faculty.

6. **Giving back to the Nature**

I am trying to nurture at least 100 trees in a big city like Bangalore, in India. Planting, watering and protecting them has been my passion for the last 5 years. I need to leave *zero* carbon footprint. See:

<https://www.facebook.com/selfiewithmytrees>

7. **I write articles for TU Delta, MyInd and on LinkedIn.**

Appendix A

Patents

Patent No	Title	Type
OCT-22-067	<i>A Balloon-enabled Drone</i> , with S Sharma, A Simha, 2022	European (Review)
OCT-21-013	<i>A Method and Apparatus for Determining Angle of Attack and Wind Speed</i> , with S Sharma, A Simha, S Narayana, NH Hokke, 2021	European (Review)
PCT/EP2023/061318	<i>A channel sensing circuit and an apparatus comprising the circuit</i> , with NH Hokke, S Sharma, S Narayana	PCT (Review)
OCT-21-009	<i>A Pin Grid Based Haptic Device</i> with Kees Kroep, Jelger Lemmers, Vineet Gokhale 2021	European
P6108272WO	<i>A channel sensing circuit and an apparatus comprising the circuit</i>	European
2024953/G01J/2020	<i>Systems and methods for infrared sensing</i> , with Sujay Narayana, Vijay S.	European – accepted
P34179PC00	<i>Systems and methods for infrared sensing</i> , with Sujay Narayana, Vijay S.	PCT - accepted
900/CHE/2006	<i>A system "click to video talk for establishing a VoIP video and method thereof</i> , with R S Varchas, S Vinay, Vijay S, H S Jamadagni, N K Rajasekharan.	Indian – <i>Granted</i> (Esqube, Bangalore)
PCT/IN06/000289	<i>A system "click to video talk" for establishing a VoIP video and method thereof</i> , with R S Varchas, S Vinay, Vijay S, H S Jamadagni, N K Rajasekharan.	International – PCT <i>Granted</i> (Esqube, Bangalore)
1545/CHE/2006	<i>A method for broadcasting on a network</i> , with C R Anand, R S Varchas, Vijay S, H S Jamadagni, N K Rajasekharan.	Indian, (under process) (Esqube, Bangalore)
01291/CHE/2007	<i>A method to enable web page with media/integrated media communication engine</i> with R S Varchas, Vijay S, H S Jamadagni, N K Rajasekharan	Indian (under process) (Esqube, Bangalore)
00887/CHE/2007	<i>A dependable and anonymous peer to peer buy and sell system through buddy services</i> with R S Varchas, Vijay S, H S Jamadagni, N K Rajasekharan.	Indian -under process (Esqube, Bangalore)
PCT/IN07/000028	<i>Speech detection using order statistics</i> with R M Shankar, Vijay S, H N Shankar	PCT - <i>Granted</i> (PESIT, Bangalore)
PCT/IN2008/000875	<i>Determining the presence of a user in an online environment</i> with R M Shankar, Vijay S, H N Shankar	PCT <i>Granted</i> (PESIT, Bangalore)
3003/CHENP/2009	<i>Speech detection using order statistics</i> with R M Shankar, Vijay S, H N Shankar	Indian - under process (PESIT, Bangalore)
12/515,536	<i>Speech detection using order statistics</i> with R M Shankar, Vijay S, H N Shankar	US – <i>Granted</i> (PESIT, Bangalore)

List of Publications

Citations >7K and H-Index: 39

Erdős number: 5 (Paul Erdős > Joel H. Spencer > Remco van der Hofstad > Piet Van Mieghem > Ramin Hekmat > Venkatesha Prasad)

Journals

- [70] Suryansh Sharma, Mike Verhoeff, Floor Elisabeth Joosen, RR Venkatesha Prasad, Salua Hamaza, “A Morphing Quadrotor-Blimp with Balloon Failure Detection and Recovery for Mobile Sensing” *IEEE Robotics and Automation Letters (RA-L)*, (accepted)
- [69] Akshit Gupta, Simone Mora, Yakir Preisle, Fabio Duarte, Venkatesha Prasad, Carlo Ratti, “Tools and methods for monitoring the health of the urban greenery”, *Nature Sustainability*, Accepted [Collaborations with MIT].

- [68] S. Sharma, T Dijkstra, RV Prasad, "Open Gimbal: A 3 Degrees of Freedom Open Source Sensing and Testing Platform for Nano and Micro UAVs", *IEEE Sensors Letters*, VOL. 7, NO. 9, Sept 2023.
- [67] Kees Kroep, V Gokhale, J Verburg, RV Prasad, ETVO: Effectively Measuring Tactile Internet With Experimental Validation, *IEEE Transactions on Mobile Computing*, 2023.
- [66] AY Majid, S Saaybi, V Francois-Lavet, RV Prasad, C Verhoeven, "Deep Reinforcement Learning versus Evolution Strategies: A Comparative Survey", *IEEE Transactions on Neural Networks and Learning Systems*, 2023
- [65] V Gokhale, K Kroep, RV Prasad, B Bellalta, F Dressler, ViTaLS-A Novel Link-Layer Scheduling Framework for Tactile Internet over Wi-Fi, *IEEE Internet of Things Journal*, 2023
- [64] Sujay Narayana, R. Venkatesha Prasad, Vijay S. Rao, Luca Mottola, T. V. Prabhakar, "Hummingbird: an energy-efficient GPS receiver for small satellites, *Communications of the ACM*, Volume 65, Issue 1120 October 2022, pp 133–140.
- [63] V Gokhale, M Eid, K Kroep, RV Prasad, VS Rao, "Toward Enabling High-Five Over WiFi: A Tactile Internet Paradigm", *IEEE Communications Magazine*, 59 (12), 90-96
- [62] Sujay Narayana, R. Venkatesha Prasad, Vijay S. Rao, Luca Mottola, T V Prabhakar, A Hummingbird in Space: An energy-efficient GPS receiver for small satellites, *GetMobile: Mobile Computing and Communications*, Volume 25, Issue 1, March 2021, pp 24–29.
- [61] R. Venkatesha Prasad, V. S. Rao, C. Sarkar, I. Niemegeers, "ReNEW: A Practical Module for Reliable Routing in Networks of Energy-Harvesting Wireless Sensors," in *IEEE Transactions on Green Communications and Networking*, vol. 5, no. 3, pp. 1558-1569, Sept. 2021
- [60] Nikos Kouvelas, R Venkatesha Prasad, "Efficient Allocation of Harvested Energy at the Edge by Building a Tangible Micro-Grid—The Texas Case", *IEEE Transaction on Green Communication and Networking*, March-2021.
- [59] P. J. Marcelis, N. Kouvelas, V. S. Rao, R. Venkatesha Prasad, DaRe: Data Recovery through Application Layer Coding for LoRaWAN, *IEEE Transaction on Mobile Computing*, 2021.
- [58] Kishor Chandra Joshi, Solmaz Niknam, R. Venkatesha Prasad, Balasubramaniam Natarajan, "Analyzing the Trade-offs in Using Millimeter Wave Directional Links for High Data Rate Tactile Internet Applications", *IEEE Transaction on Industrial Informatics*, 2020.
- [57] Kishor Chandra Joshi, Rizqi Hersyandika, R. Venkatesha Prasad, "Association, Blockage and Handoffs in IEEE 802.11ad based 60GHz Picocells-A Closer Look", *IEEE Systems Journal*, 2020.
- [56] Chayan Sarkar, R. Venkatesha Prasad, and Koen Langendoen, "FLEET: When time-bounded communication meets high energy-efficiency", *IEEE Access*, 2019.
- [55] Vijay S Rao, R Venkatesha Prasad, Prabhakar, Tamma Venkata; Sarkar, Chayan; Koppal, Madhusudan; Niemegeers, Ignas Understanding and Improving the Performance of Constructive Interference using Destructive Interference in WSNs", *IEEE/ACM Transaction on Networking*, 2019.
- [54] O. Holland, E. Steinbach, R V Prasad, et al., "The IEEE 1918.1 "Tactile Internet" Standards Working Group and its Standards," in *Proceedings of the IEEE*, vol. 107, no. 2, pp. 256-279, Feb. 2019
- [53] Anand Haridas, Vijay S Rao, R Venkatesha Prasad, and Chayan Sarkar. "Opportunities and Challenges of using Energy-harvesting for NB-IoT", *ACM SIGBED Review*, 2019.
- [52] Sujay Narayana, R. Venkatesha Prasad, Kevin Warmerdam, "Mind Your Thoughts: BCI Using Single EEG Electrode", *IET Cyber-Physical Systems: Theory and Applications*, Feb 2019.
- [51] M. Mukherjee, L. Shu, R. Venkatesha Prasad, D. Wang, and G. P. Hancke, "Sleep Scheduling for Unbalanced Energy Harvesting in Industrial Wireless Sensor Networks," *IEEE Communications*, 2018.
- [50] Luis Henrik John, Chayan Sarkar, R. Venkatesha Prasad, Where is PELE?: pervasive localization using wearable and handheld devices, *ACM SIGBED Review*, Volume 15 Issue 2, pp. 8-15, March 2018.
- [49] Prabhakar T, V, Vishwas Shashidhar, G S Aishwarya Meghana, R. Venkatesha Prasad, Garani Vittal Pranavendra, Zero energy visible light communication receiver for embedded applications, *ACM SIGBED Review*, Volume 15 Issue 2, pp. 37-43, March 2018.
- [48] Kishor Chandra, Andrea Marcano and Shahid Mumtaz and R Venkatesha Prasad, "Combining Millimeter Wave and Non-Orthogonal Multiple Access for Power-Efficient Ultra-dense 5G Networks' in *IEEE Vehicular Technology*, April 2018.

- [47] Chayan Sarkar, Jan Jaap Treurniet, Sujay Narayana, R. Venkatesha Prasad, and Willem de Boer, "SEAT: Secure Energy-efficient Automated Public Transport Ticketing System", *IEEE Transactions on Green Communications and Networking (TGCN)*, IEEE, Dec 2017.
- [46] S. N. Akshay Utama Nambi, R. Venkatesha Prasad, Antonio R. Lua, "Decentralized Energy Demand Regulation in Smart Homes", *IEEE Transaction on Green Communications and Networking*, vol. 1, pp. 372-380, 2017.
- [45] Kishor Chandra, R Venkatesha Prasad and Ignas Niemegeers "Performance analysis of IEEE 802.11ad MAC protocol", in *IEEE Communications Letters*, vol. 99. March 2017.
- [44] Chayan Sarkar, Vijay S. Rao, R. Venkatesha Prasad, Sankar Narayan Das, Sudip Misra, and Athanasios Vasilakos, "VSF: An Energy-Efficient Sensing Framework using Virtual Sensors", *IEEE Sensors Journal*, March 2016.
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Appendix B

Reviewed for the following Journals/Transactions

1. IEEE Sensors Letters.
2. IEEE Systems Journal.
3. IEEE Intelligent Systems.
4. European Transaction on Telecommunication.
5. International Journal of Modeling and Simulation.
6. IEEE Communication Letters.
7. IEEE Wireless Letters.
8. IEEE Transactions on Mobile Computing.
9. IEEE Transactions on Dependable and Secure Computing.
10. ACM Mobile Computing and Communications Review (MC2R)
11. IEEE Transactions on Knowledge and Data Engineering.
12. IEEE Transactions on Networking.
13. IEEE Transactions on Industrial Informatics.
14. IEEE Transactions on Network and Service Management
15. IEEE Transactions on Computers.
16. IEEE Transactions on Communication.
17. IEEE Transactions on Multimedia.
18. IEEE Transactions on Software Engineering.
19. IEEE Transactions on Wireless Communication.
20. IEEE Transactions on Automation Science and Engineering.
21. IEEE Transactions on Parallel and distributed Systems.
22. IEEE Transactions on Vehicular Technology.
23. IEEE - JSAC, special Issue on Cognitive Radio, 2006, 2010.
24. IEEE Internet Computing Journal.
25. IEEE Communications Magazine.
26. IEEE Transaction on Multimedia.
27. IEEE Security and Privacy Journal.
28. IEEE Multimedia.
29. IEEE Micro.
30. IEEE Networks.
31. IEEE Computer Magazine.
32. IEEE Software.
33. IEEE Wireless Magazine.
34. IEEE IoT Journal.
35. Elsevier Journal of Network and Computer Applications.
36. Elsevier Journal of Speech Communication.
37. Elsevier Journal of Parallel and Distributed Computing
38. Elsevier Journal of Computer Networks.
39. Elsevier Journal of Computer Communications.
40. Elsevier Journal of Telecommunication Policy.
41. Elsevier Journal of Neurocomputing.
42. Elsevier Journal of Pervasive and Mobile Computing.
43. Elsevier Telecommunications Policy.
44. EURASIP JWCN.
45. IEEE Transaction Information Forensic & Security.
46. EURASIP Journal on Audio, Speech, and Music Processing
47. Wiley Wireless Communications and Mobile Computing

48. Elsevier Ad-Hoc & Sensor wireless Networks Journal.
49. Zhejiang University-SCIENCE A.
50. IET Communications (formerly IEE Communication Proceedings).
51. IGI Global book series.
52. Journal of Ad-Hoc & Sensor wireless Networks.
53. International Journal of Sensor Networks.
54. J. Scientific Research and Essays.
55. Int. J. of Sensor Networks.
56. Informatica - Int. J. on Computing and Information.
57. IEEE JSAC Nano-Communication.
58. IEEE JSAC- Emerging Technologies in Communications
59. IEEE JSAC- Cognitive Radio Networking and Communications.
60. Springer Journal of Network, and Systems Management.
61. Journal of Communications and Networks.
62. IEEE Communication Surveys and Tutorials.
63. IEEE JSTP.
64. Journal of Network and Systems Management.
65. IEEE Access.
66. IEEE Intelligent Systems.
67. IEEE Transactions on Cyber-Physical Systems.
68. IEEE Transactions on Control of Network Systems.

TPC Membership

Chaired Sessions in many of the following conferences.

1. IEEE INFOCOM 2019 SMILING Workshop
2. IEEE Infocom 2016 to 2019.
3. IEEE WF-5G 2018.
4. International Conference on the Network of the Future (NoF) 2018.
5. Workshop on LPWAN Systems and Applications (LPWANSys) 2018.
6. IEEE DySpan 2015 to 2018.
7. SENSORNETS-2013 to 2017.
8. IEEE ICC (Various tracks) 2008-2019.
9. IEEE Globecom (Various tracks) 2008-2019.
10. IEEE CLEEN workshop, 2018 - 2019
11. CORAL Workshop 2012, 2013, 2015, 2016.
12. IEEE International Symposium on Software Defined Systems, 2016.
13. ACM EWSN 2016.
14. Workshop: IoT as driver for the co-created Smart City, WF-IoT 2016.
15. IEEE VTC Spring-2009, 2010, 2015, Fall-2008, 2010, 2012, 2013, 2016.
16. IEEE TenSymp, 2015.
17. ComsNets PhD Forum, 2015.
18. ComsNets 2015.
19. IEEE SWANSITY (SECON) 2015.
20. conference on sensing systems and software, IoT Summit, 2015.
21. Self-IoT 2015.
22. CiviTech in the context of SmartCity 360, 2015.
23. IoTIP 2015.
24. IEEE International Conference on Computer and Information Technology (CIT 2015).
25. IEEE SDS 2015.
26. IEEE MCV 2014.
27. CROWNCOM 2007-2014.
28. CCNC-14 Demos.
29. IEEE goSMART 2012 – 2014.
30. IEEE WCNC-2008 to 2013.

31. Networking Track IEEE CCNC-2009, 2010, 2013
32. IEEE SECON-2009 to 2013, 2019.
33. IEEE GreenCom 2011 to 2016.
34. Future Network and MobileSummit 2013.
35. PerCom CCC 2012, 2013 Workshop.
36. USENIX Self-IoT 2012, 2013 Workshop.
37. International Conference on Telecommunications 2012, 2013.
38. Future Network Summit-2013.
39. Symposium on Communications Engineering - JIEEEC 2013
40. MobileCloud-2013 at MobiHoc 2013.
41. MILCOM-2013,
42. ICUFN-2013,
43. IEEE RAICS 2013,
44. LCDNET-2013 at MobiCom 2013.
45. ICCVE-2013.
46. Internet Technology and Applications (iTAP) 2012 and 2013.
47. GlobeCom AHSN 2010 to 2012.
48. Cognitive, Cooperative & Diversity Techniques (CCDT), 2012
49. Cooperative and Cognitive Communication IEEE Infocom-2012
50. Cognitive, Cooperative & Diversity Techniques (CCDT) 2012 Workshop.
51. ICBME—2012, India
52. IEEE ICC-CQR, 2012.
53. IWCMC Wireless Networks track, 2011, 2012.
54. WCSP'12 – WNS.
55. GlobeCom SAC 2008 to 2011
56. WoNGeN-2008, 2011 (with IEEE HiPC).
57. Cognitive and Resource Aware Communication (CRWC), ICCCN 2011
58. NCC, Bangalore, 2011
59. Mobihealth, at MobiHoc, 2011
60. Cognitive and Cooperative Networks Workshop at Infocm 2011.
61. CogArt 2011.
62. IEEE PIMRC-2008, 2010
63. IEEE LCN -2009, 2010.
64. MOBILIGHT-2009, 2010.
65. SDR/Whitespace Workshop with SECON, 2010.
66. Workshop Cognitive Radio Resource Aware Networks (CR-RAN), 2010
67. Workshop on CR-TVWS, IPCCC, 2010
68. Advances in Next Generation Services and Service Architectures (ANGSA) 2010
69. Wireless Telecommunication Symposium (WTS), 2010
70. International Conference on Ubiquitous and Future Networks (IEEE ICUFN) 2009, 2010.
71. Ubi-Islands 2009, 2010
72. CoRoNet-2009, Mobicom, Beijing.
73. ACM WICON-2008, 2009.
74. Member International Conference on Future Information Networks (ICFIN), 2009
75. International Conference on Computer Science and Global Communications Technology, Nepal, 2009.
76. Wireless VITAE 2009.
77. COGCOM 2009 (ICCCN).
78. IEEE IMSAA 2009
79. ChinaCom-2007, 2008.
80. IEEE ICCCN-2008
81. IEEE Symposium on Computer and Communications 2002 to 2008.
82. IEEE ICCCN-2008, Cognitive Radio Track.
83. IEEE ADCOM-2008, Chennai.
84. COMSWARE-2007.
85. ACM MM (Networking) -2007.
86. CoNET-2007.
87. ATNAC-04.

Conference Reviews

1. ACM – SIGCHI - 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012.
2. British HCI – 2006, 2007, 2008.
3. ACM-SIGCHI DIS2004: Designing Interactive Systems, Cambridge, Massachusetts.
4. ACM- Computer Supported Collaborative Work - CSCW 2004, 2008, 2010, 2013.
5. ACM workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems, San Diego, 2003, and Venice, Italy, 2004.
6. IEEE VTC 2017
7. IEEE International Conference on Communication Systems - 2006.
8. IEEE International Conference on Network Protocols - 2006.
9. IEEE International Conference on Telecommunications - 2013.
10. IEEE International Conference on Communications and Electronics - 2006
11. IEEE European Wireless 2006.
12. ACM HCI 2006, 2008
13. CCCT 2004, Texas Austin, CCCT 2005 - University of Texas, Austin.
14. Risk Management and Cyber Informatics (RMCI- 2005, 2006, 2007, 2008, 2009).
15. IEEE International Conference on Computer Communications and Networks, ICCN-2007.
16. ACM VRST-2007.
17. SCVT-2007
18. IWCMC 2010
19. IEEE TenCon-2008.
20. IEEE DySpan 2008, 2010,
21. Infocm Workshop on Mobile Cloud Computing, 2014.
22. Third International IFIP Conference on New Technologies, Mobility and Security – 2009
23. IEEE ICC-2010, Signal Processing Track.
24. IEEE ADCOM – 2009.
25. International Conference on Wireless Communication and Signal Processing.
26. ICCCN 2007
27. IEEE ICNP 2006
28. IEEE Conference on Wireless Communication and Signal Processing 2009
29. Workshop on Mobile Computing and Networking Technologies (WMCNT). 2011
30. Workshop on Ubiquitous Computing and Networks, with Globecom, 2011
31. ACM EICS 2010
32. ACM CSCW 2011
33. European Wireless Technology Conference (EuWiT) 2010
34. Future Network and Mobile Summit 2010, 2013
35. NTMS Mobility Track, 2009