

Vanlin Sathya | Curriculum Vitae

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Research Interest

My recent research interests lie in design, analysis, and implementation of wireless network algorithms. I am particularly interested in LTE Wi-Fi Coexistence in unlicensed spectrum, Device-to-Device (D2D) networking, Interference Management in 5G network, Internet of Things (IoT), LTE Wi-Fi Aggregation (LWA), Handover and Placement of Femto (small cells) in LTE, Full Duplex in 5G cellular communication, Data offloading, Bandwidth aggregation and routing between Wi-Fi and cellular, M2M congestion and scheduling issues. My primary research goal is to design and develop a next generation wireless network architectures so that they are energy efficient, low latency, scalable, and to address increasing demand for bandwidth, quality, reliable communications, and connectivity.

Current Employment

- **Adjunct Lecturer in Electrical and Computer Engineering** **USA**
The University of Illinois at Chicago (UIC) *January 2020– May 2020*

ECE 436 Computer Communication Networks II

- **Post-doctoral Scholar in Computer Science and Engineering** **USA**
The University of Chicago *November 2016– Present*

Coexistence of small-cell LTE-U and Wi-Fi networks in unlicensed bands at 5 GHz is a topic of active interest, primarily driven by industry groups affiliated with the two (cellular and Wi-Fi) segments. While there is a body of analytical work exploring coexistence of LTE-U and Wi-Fi, our focus in this project is on real-time deployment aspects of such coexisting networks, a topic which has seen little traction in the existing literature. As per the scope of this project, I am responsible for setting up the 5G real-time LTE Wi-Fi coexistence National Instrument based test-bed and to study, analyze, design and propose algorithm to the issue faced in real-time coexistence.

Advisors: Prof. Monisha Ghosh (Univ. of Chicago) & Prof. Sumit Roy (Univ. of Washington)

Education

- **Ph.D. in Computer Science and Engineering (2011-2016)**
Indian Institute of Technology (IIT) Hyderabad, India
Thesis Title: On Improving Data Rates of Indoor Users in LTE Cellular Networks
Advisor: Dr. Bheemarjuna Reddy Tamma
- **Master of Engineering (M.E) in Mobile and Pervasive Computing (2009-2011)**
Anna University, Chennai, T.N, India
Thesis Title: Smart Sensor to Locate Fire-Fighters using WSN

- **Bachelor of Engineering (B.E) in Computer Science and Engineering (2005-2009)**
Anna University, Chennai, T.N, India
Project Title: Implementing QoS for various Internet Services.

Publications

Journal Papers: Refereed [* → corresponding author]

1. **V. Sathya***, Srikant Manas Kala, Muhammad Iqbal Rochman, Monisha Ghosh and Sumit Roy, *Standardization Advances For Cellular and Wi-Fi Coexistence in the Unlicensed 5 and 6 GHz Bands*, in ACM GetMobile Magazine, December 2019.
2. **V. Sathya***, Morteza Mehronush, Monisha Ghosh and Sumit Roy, *Wi-Fi/LTE-U Coexistence: Real-time Issues and Solutions*, in IEEE Access, January 2020.
3. Kalpana Naidu, Hemanth Kumar Gai, Amgothu Ravikumar, and **V. Sathya**, *Optimal Resource Allocation Based on Particle Swarm Optimization*, in Springer Volume, October 2019.
4. A. Ramamurthy, **V. Sathya***, Shrestha Ghosh, Antony Franklin, and Bheemarjuna Reddy Tamma, *Dynamic Power Control and Scheduling in Full Duplex Cellular Network with D2D*, in Springer Wireless Personal Communications (WPC), October 2018.
5. Srikant Manas Kala, **V. Sathya**, M Pavan Kumar Reddy, Betty Lala and Bheemarjuna Reddy Tamma, *A Socio-inspired CALM Approach to Channel Assignment Performance Prediction and WMN Capacity Estimation*, in Elsevier Journal of Network and Computer Applications (JNCA), October 2018.
6. Morteza Mehronush, Sumit Roy, **V. Sathya**, and, Monisha Ghosh, *On the Fairness of Wi-Fi and LTE-LAA Coexistence*, in IEEE Transactions on Cognitive Communications and Networking (TCCN), August 2018.
7. Morteza Mehronush, **V. Sathya**, Sumit Roy, and Monisha Ghosh, *Analytical Modeling of Wi-Fi and LTE-LAA Coexistence: Throughput and Impact of Energy Detection Threshold*, in *IEEE/ACM Transactions on Networking (ToN)*, July 2018.
8. S. Gosh, **V. Sathya***, A. Ramamurthy, B. R. Tamma, A novel resource allocation and power control mechanism for hybrid access femtocells, accepted in *Elsevier Computer Communication (COMCOM)*, May 2017.
9. Sreekanth, T.V. Pasca, **V. Sathya***, and K. Kuchi, Enabling Edge Computing and IoT in Dense Futuristic Networks using cellular, accepted in *IEEE Consumer Electronics Magazine*, September 2016. [**Top 10 most popular articles: 6th position**]
10. **V. Sathya***, V. Venkatesh, R. Ramji, A. Ramamurthy, B. R. Tamma, Handover and SINR optimized deployment of LTE femtocells in enterprise environments, accepted in *Springer Wireless Personal Communications (WPC)*, vol. 88, pp. 619-643, June 2016.
11. **V. Sathya***, A. Ramamurthy, S. Kumar, B. R. Tamma, On improving SINR in LTE hetnets with D2D relays, accepted in *Elsevier Computer Communications (COMCOM)*, vol. 83, pp. 27-44, June 2016.
12. **V. Sathya***, A. Ramamurthy, M. Tahalani, B. R. Tamma, On femto placement and decoupled access for downlink and uplink in enterprise environments, *accepted in EAI Endorsed Transactions on Future Internet*, November 2015.
13. H. Lokhandwala, **V. Sathya***, B. R. Tamma, Phantom Cell Architecture for LTE and its Application in Vehicular IoT Environments, accepted in *EAI Endorsed Transactions on Future Internet*, July 2015.

Journal Papers: Under Review

1. **V. Sathya***, Shrestha Ghosh, Arun Ramamurthy, and Bheemarjuna Reddy Tamma, Small Cell Planning: Resource Management and Interference Mitigation Mechanisms in LTE HetNets, *submitted to Elsevier Physical Communication*.

Conferences: Refereed Papers

1. Srikant Manas Kala, **V. Sathya**, Winston KG Seah, and Bheemarjuna Reddy Tamma, *CIRNO: Leveraging Capacity Interference Relationship for Dense Networks Optimization*, in Proc. of IEEE Wireless Communications and Networking Conference (WCNC), April 2020, Seoul, South Korea.
2. **V. Sathya**, Adam Dzedzic, Monisha Ghosh and Sanjay Krshnan, Machine Learning based detection of

- multiple Wi-Fi BSSs for LTE-U CSAT, in *Proc. of IEEE ICNC Conference track on Machine Learning for Communications and Networking (MLCN)*, February 2020, Big-Island, Hawaii, USA.
3. Srikanth Manas Kala, **V. Sathya**, Suhel Sajjan Magdum, and Bheemarjuna Reddy Tamma, *ODiN: Enhancing Resilience of Disaster Networks through Regression Inspired Optimized Routing*, in *Proc. of IEEE Advanced Network and Telecommunications Systems (ANTS)*, December 2019, Goa, India.
 4. Gaurav Garg, Venkatarami Reddy, **V. Sathya**, Antony Franklin A, and Bheemarjuna Reddy Tamma, An SLA-Aware Network Function Selection Algorithm for SFCs, in *Proc. of IEEE 5G World Forum*, 30 September to 2 October 2019, Dresden, Germany.
 5. **V. Sathya**, Morteza Mehronush, Monisha Ghosh and Sumit Roy, Auto-correlation based sensing of multiple Wi-Fi BSSs for LTE-U CSAT, in *Proc. of IEEE Vehicular Technology Conference (VTC) Conference track on Spectrum Sharing, Spectrum Management, and Cognitive Radio*, September 2019, Honolulu, Hawaii, USA.
 6. Srikanth Manas Kala, **V. Sathya**, Suhel Sajjan Magdum, Tulja Vamshi Kiran Buyakar, Hatim Lokhandwala, and Bheemarjuna Reddy Tamma, *Designing infrastructure-less disaster networks by leveraging the AllJoyn framework*, in *Proc. of ICDCN Workshop (EmeRTeS)*, Jan 2019, Bangalore, India.
 7. **V. Sathya**, Morteza Mehronush, Monisha Ghosh and Sumit Roy, Energy detection based sensing of multiple Wi-Fi BSSs for LTE-U CSAT, in *Proc. of IEEE International Conference on Global Communications (GLOBECOM) Symposium on Cognitive Radio and Networks*, Dec 2018, Abu Dhabi, UAE.
 8. **V. Sathya**, Morteza Mehronush, Monisha Ghosh and Sumit Roy, Analysis of CSAT performance in Wi-Fi and LTE-U Coexistence", in *Proc. of IEEE International Conference on Communications (ICC) Workshop on 5G Ultra Dense Networks*, May 2018, Kansas City, MO, USA.
 9. **V. Sathya**, Morteza Mehronush, Monisha Ghosh and Sumit Roy, Association fairness in Wi-Fi and LTE-U coexistence, in *Proc. of IEEE Wireless Communications and Networking Conference (WCNC)*, April 2018, Barcelona, Spain.
 10. Muhammad Iqbal Cholilur Rochman, **V. Sathya**, and Monisha Ghosh, Impact of changing energy detection thresholds on fair coexistence of Wi-Fi and LTE in the unlicensed spectrum, in *Proc. of IEEE Wireless Telecommunication Symposium (WTS)*, April 2017, Chicago, USA.
 11. Deepa Martolia, **V. Sathya**, Anil Kumar Rangiseti, Bheemarjuna Reddy Tamma, and Antony Franklin, Enhancing Channel Quality of Victim Macro Users via Joint ABSF and Dynamic Power Control, in *Proc. of National Conference on Communication (NCC)*, March 2017, IIT Madras, Chennai, India.
 12. Anand M. Baswade, **V. Sathya**, B. R. Tamma, A. Franklin, Unlicensed Carrier Selection and User Offloading in Dense LTE-U Networks, in *Proc. of IEEE International Conference on Global Communications (GLOBECOM)*, 2016.
 13. M. K. Giluka, Sibgath Khan, **V. Sathya**, and A. Franklin, Leveraging Decoupling in Enabling Energy Aware D2D Communicaitons, in *Proc. of IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, November 2016, Bangalore, India.
 14. Akilesh B, **V. Sathya**, Arun Ramamurthy, and B. R. Tamma, A Novel Scheduling Algorithm to Maximize the D2D Spatial Reuse in LTE Networks, in *Proc. of IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, November 2016, Bangalore, India.
 15. Arun Ramamurthy, **V. Sathya**, Shrestha Ghosh, and B. R. Tamma, On Improving Capacity of Full-Duplex Small Cells with D2D, Published in arXiv, June 2016.
 16. M. K. Giluka, Sibgath, G. M. Krishna, T. Atif, **V. Sathya**, B. R. Tamma, On Handovers in Uplink/Downlink Decoupled LTE HetNets, in: *IEEE Wireless Communications and Networking Conference (WCNC)*, 2016.
 17. Sreekanth, Thomas, **V. Sathya**, K. Kuchi, A Novel RACH Mechanism for Dense Cellular-IoT Deployments, in: *IEEE Wireless Communications and Networking Conference (WCNC)*, 2016.
 18. **V. Sathya**, R. Anilkumar, A. Ramamurthy, B. R. Tamma, Maximizing Dual Cell Connectivity Opportunities in LTE Small Cells Deployment, in: *National Conference on Communication (NCC)*, 2016.
 19. **V. Sathya**, A. Ramamurthy, B. R. Tamma, Joint placement and power control of LTE femto base stations in enterprise environments, in: *IEEE International Conference on Computing, Networking and Communications (ICNC)*, 2015, pp. 1029–1033.
 20. A. Ramamurthy, **V. Sathya**, V. Venkatesh, R. Ramji, B. R. Tamma, Energy-efficient Femtocell Placement in LTE Networks, in: *IEEE International Conference on Electronics, Computing and Communication*

- Technologies (CONECCT)*, 2015, pp. 1–6.
21. **V. Sathya**, A. Ramamurthy, B. R. Tamma, On placement and dynamic power control of femtocells in LTE hetnets, in: *IEEE International Conference on Global Communications (GLOBECOM)*, 2014, pp. 4394–4399.
 22. M. Tahalani, **V. Sathya**, A. Ramamurthy, U. Suhas, M. K. Giluka, B. R. Tamma, Optimal placement of femto base stations in enterprise femtocell networks, in: *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, 2014, pp. 1–6.
 23. H. Lokhandwala, **V. Sathya**, B. R. Tamma, Phantom cell realization in LTE and its performance analysis, in: *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, 2014, pp. 1–6.
 24. M. K. Giluka, N. Rajoria, A. C. Kulkarni, **V. Sathya**, B. R. Tamma, Class based dynamic priority scheduling for uplink to support M2M communications in LTE, in: *IEEE World Forum on Internet of Things (WF-IoT) Conference*, 2014, pp. 313–317. [Referred this work in AT&T patent]
 25. R. Chaganti, **V. Sathya**, S. Ahammed, R. Rex, B. R. Tamma, Efficient SON handover scheme for enterprise femtocell networks, in: *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, 2013, pp. 1–6.
 26. **V. Sathya**, H. V. Gudivada, H. Narayanam, B. M. Krishna, B. R. Tamma, Enhanced distributed resource allocation and interference management in LTE femtocell networks, in: *IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*, 2013, pp. 553–558.
 27. M. Tahalani, **V. Sathya**, U. Suhas, R. Chaganti, B. R. Tamma, Optimal femto placement in enterprise building, in: *IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, 2013, pp. 1–3.

Conference: Under Review

1. Srikanth Manas Kala, Winston K.G. Seah, **V. Sathya**, Betty Lala and Bheemarjuna Reddy Tamma, Exploring the Statistical Relationship between Interference Estimates and Network Capacity, *submitted to IEEE International Conference on Communications (ICC) 2019*.

Short Papers and Posters

1. Adam Dziedzic, **V. Sathya**, Monisha Ghosh and Sanjay Krshnan, Detection of multiple Wi-Fi BSSs for LTE-U CSAT using Machine Learning Approach, Presented at Center for Unstoppable Computing (CERES) 2019, University of Chicago, USA.
2. Srikanth Manas Kala, **V. Sathya**, M Pavan Kumar Reddy and Bheemarjuna Reddy Tamma, *iCALM : A Topology Agnostic Socio-inspired Channel Assignment Performance Prediction Metric for Mesh Networks*, in Proc. of ACM Mobile Computing and Networking (MobiCom), November 2018, New Delhi, India.
3. Srikanth Manas Kala, **V. Sathya** and Bheemarjuna Reddy Tamma, Exploring the Relationship between Socio-inspired CALM and Network Capacity through Regression Analysis, in Proc. of *IEEE 7th International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, September 2018, Bangalore, India. [Best Poster Award]
4. Yuva Kumar, **V. Sathya**, and Sreenath Ramanath, Enhancing Spectral Efficiency in LTE-D2D Networks, in Proc. of *IEEE 9th International Conference on COMmunication System and NETworks (COMSNETS) poster*, January 2017, Bangalore, India.
5. **V. Sathya**, B. R. Tamma, Dynamic spectrum allocation in femto based lte network, in: *International Conference on Communication Systems and Networks (COMSNETS) poster*, 2013, pp. 1–2.
6. **V. Sathya**, Bala Murali Krishna K, B. R. Tamma, Efficient Interference Management Scheme for LTE Femtocell Networks, *Presented at ACM Mobile Ad Hoc Networking and Computing (Mobihoc)*, July-August 2013, Bangalore, India.

Book Chapter

- Kalpana Naidu, Hemanth Kumar Gai, Amgothu Ravikumar, and **V. Sathya**, *Optimal Resource Allocation Based on Particle Swarm Optimization*, in Springer Advances in Communications, Signal Processing, and VLSI, 2019.

Live Demos & Presentation

- **V. Sathya**, and Monisha Ghosh, *Association fairness in LTE Wi-Fi Coexistence*, in IEEE International Conference, in International Conference on Communications (ICC), May 2018, Paris, France (displayed at NI demo booth).
- **V. Sathya**, and Monisha Ghosh, *LTE Wi-Fi Coexistence: Impact of interference on real-time video streaming over Wi-Fi*, in IEEE Dynamic Spectrum Access Network (DySPAN), March 2017, Baltimore, USA.

Patent

- Sreekanth, Thomas, **V. Sathya**, K. Kuchi, B. R. Tamma, A Novel RACH Mechanism for Dense Cellular-IoT Deployments, *Provisional Filing: 06.11.2015*, Patent Pending (India).

Teaching Assistant and Research Guidance/Colloboration Experience

Lab Courses

- CS 3040 Computer Network, First Semester Jan 2012.
- CS 5070 Networked Wireless System, First Semester Jan 2013-2016.
- CS 3030 Operating System, Second Semester 2012-2014.
- ID 1061 Introduction to Computer Programming, First Semester Jan 2012.

Mentorship Member

- IITH Alumni Mentorship Program → The purpose is to facilitate relationships between alumni and current students with a focus on research career development and community building.

Intern Research Guidance

- Shreshtha Ghosh, IEST Shilpur, India (Currently pursuing MS in University of Saarland, Germany in collaboration with the Max Planck Institute for Computer Science).
- Milind Thilani, IIT Kharagpur, India (Now in Amazon, India).
- Varsha Venkat, Stony Brook University, (Now in Intuit, CA, USA).
- Rithi Ramji, University of Florida, (Now in Microsoft, Seattle, USA).
- Keshav Goel, NIT, India (Now in Amazon, India).
- Riddhi Rex, Anna University Chennai, India (Currently pursuing MS in Stony Brook University, USA).

Undergraduate Research Guidance

- Arun Ramamurthy, IIT Bombay (Now in TCS Innovation Lab, India).
- Harsha Vardhan Gudivada, IIT Hyderabad (Now in Morgan Stanley, India).
- Hemanth Narayanam, IIT Hyderabad, (Now in Tenmiles, India).
- Touheed Anwar Atif, IIT Hyderabad, (Currently pursuing PhD in University of Michigan, USA).
- Akilesh Badrinarayannan, Adobe R&D (Currently pursuing MS in Montreal Institute For Learning Algorithms, Canada).
- Sandeep Kumar, IIT Hyderabad (Now in WiSig Networks, India).

Research Collaboration

- Dr. Morteza Mehrnoush, University of Washington, USA (Now in Broadcom, USA).
- Professor. Winston Seah, Victoria University of Wellington, New Zealand.
- Assistant Professor. Sanjay Krishnan, University of Chicago, USA.
- Associate Professor. Antony Franklin, IIT Hyderabad, India.
- Assistance Professor. Anil Kumar, IIIT Gwalior, India.
- Assistance Professor. Mukesh Kumar Giluka, IIIT Nagpur, India.
- Assistance Professor. Kalpana Naidu, NIT Warangal, India.
- Dr. Thomas Valerian Pasca, Qualcomm Technologies R & D, USA.

- Dr. Anand Baswade, Samsung R & D, India.
- Dr. Nitish Rajoria, Keio University, Japan.
- Dr. Ajay Pratap, Missouri University of Science and Technology, USA.
- Adam Dziedzic, University of Chicago, USA.
- Yuva Kumar, Keio University, Japan.
- Srikanth Manas Kala, Osaka University, Japan.
- Muhammad Iqbal Cholilur Rochman, University of Chicago, USA.
- Pavan Kumar Reddy, Qualcomm, India.
- Bala Murali krishna, Rutgers University, USA.
- Ramaraju Chaganti, IIT Hyderabad, India.
- Sreekanth Dama, Qualcomm Communications R & D, India.
- Bhupesh Raj, Rutgers University, USA.

Honors and Distinctions

1. LTE Wi-Fi real-time coexistence work was presented on **IEEE 802.11 Coexistence Workshop** to engineers, researchers and scholars from industrial magnates, like AT&T, CISCO, Braodcom, HP, Qualcomm, Nokia, Orange, Ericsson on July 17, 2019.
2. Our paper titled *Exploring the Relationship between Socio-inspired CALM and Network Capacity through Regression Analysis* received **Best Poster Award** in IEEE ICACCI, September 2018.
3. **Post-doc Scholarship** from National Science Foundation (NSF) grant, (Nov 2016-Present).
4. Recipient of **Excellence in Academic** award for securing first rank in the Computer Science and Engineering Department at the Indian Institute of Technology Hyderabad, India (2012-2013).
5. Recipient of **Excellence in Research** award for exceptional research profile at Indian Institute of Technology Hyderabad, India (2013-2014).
6. **Recipient of Full Grant** from the Indian Institute of Technology Hyderabad for attending ICNC 2015 held at Anaheim, U.S.A.
7. **Travel Grant** to attend ACM Mobihoc 2013, Bangalore, India.
8. **Travel Grant** to attend COMSNETS 2013 & 2015, Bangalore, India.
9. **PhD Research Fellowship** from MHRD, Govt. of India, (2011-2016).
10. **Silver** medalist in Masters (M.E: Mobile & Pervasive Computing 2011).

Professional Activities

Reviewer for the following Conferences/Journals:

- IEEE Transactions on Wireless Communications
- IEEE/ACM Transactions on Networking
- IEEE Transactions on Communications
- IEEE Communication Letter
- IEEE Wireless Communication Letter
- IEEE Networking Letters
- IEEE Access
- Transactions on Emerging Telecommunications Technologies
- Springer: Wireless Personal Communication
- Elsevier: Journal of Network and Computer Applications
- Elsevier: Computer Communication
- Elsevier: Journal of Traffic and Transportation Engineering
- EAI Endorsed Transactions
- IEEE ICC 2018
- NCC 2018, 2019, & 2020
- IEEE VTC 2017, 2019
- IEEE ANTS 2014

Conference Session Chair

- ICNC 2020 Technical Symposium
- ICNC 2020 CNC Workshop

Technical Program Committee (TPC) Member

- CECNET 2020
- SPCOM 2020
- NCC 2018, 2019 & 2020
- Comsnet Poster 2019

Member

- IEEE Member
- IEEE Young Professionals
- IEEE Comsoc

Invited Talks

- "Will Spectrum Sharing Quench the need of Future Wireless (6G)?", University of Illinois at Chicago (UIC), USA, January 2020.

Presentations given at National & International Conferences

- IEEE International Conference on Computing, Networking and Communications (IEEE ICNC 2020), Big-Island, Hawaii, USA, February 2020.
- IEEE Vehicular Technology Conference (IEEE VTC 2019), Honolulu, Hawaii, USA, September 2019.
- Mini Project Presented in POWDER-RENEW Mobile and Wireless Week, University of Utah campus, USA, September 2019.
- IEEE Global Communications Conference (IEEE Globecom 2018), Abu-dhabi, UAE, Dec 2018.
- IEEE Wireless Telecommunications Symposium (IEEE WTS 2017), Chicago, USA, April 2017.
- Demo on **LTE Wi-Fi Coexistence** in IEEE International Symposium on Dynamic Spectrum Access Networks (IEEE DySPAN 2017), Baltimore, USA, March 2017.
- IEEE Global Communications Conference (IEEE Globecom 2016), Washington DC, USA, December 2016.
- International Conference on Wireless Communication and Networking Conference (IEEE WCNC 2016), Doha, Qatar, April 2016.
- National Conference on Communication (IEEE NCC 2016), IIT Guwahati, India, March 2016.
- International Conference on Computing, Networking and Communications (IEEE ICNC 2015), Anaheim, USA, February 2015.
- International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS 2014), New Delhi, India, December 2014.
- International Conference on Communication, Systems and Networks (COMSNET 2012), Bangalore, India, December 2012.

Attended National & International Conferences/Workshops

- IEEE ICNC 2020, Big-Island, Hawaii, USA, February 2020.
- IEEE VTC 2019, Honolulu, Hawaii, USA, September 2019.
- First POWDER-RENEW Mobile and Wireless Week, University of Utah campus, USA, September 2019.
- OpenAirInterface (OAI) North America Workshop, Nokia Bell Labs, NJ, USA, June 2019.
- IEEE Globecom 2018, Abu-dhabi, UAE, Dec 2018.
- IEEE VTC 2018, Chicago, USA, August 2018.

- IEEE ICC, Kansas City, USA, May 2018.
- IEEE WTS 2017, Chicago, USA, April 2017.
- IEEE Dyspan 2017, Baltimore, USA, March 2017.
- IEEE Globecom 2016, Washington DC, USA, December 2016.
- IEEE WCNC 2016, Doha, Qatar, April 2016.
- NCC 2016, IIT Guwahati, Assam, India, March 2016.
- IEEE ICNC 2015, Anaheim, USA, February 2015.
- ACM Mobihoc, Bangalore, India, August 2013.
- COMSNET 2012, Bangalore, India, December 2012.