

Prof. Vineeth B.S.

Department of Avionics, Indian Institute of Space Science and Technology, Department of Space, Govt. of India.

Ph.D. (2006 - 2014)

Dept. of Electrical Communication Engg.,
Indian Institute of Science,
Bangalore.

B.Tech in Electronics and Communication Engineering, (2002 - 2006)
College of Engineering,
Trivandrum.

Research interests

Modelling of Analytical Tools

Performance Optimisation of Engineering Systems

Queuing Models and Analytical Tools

Publications

Journals

- J4: Scheduling Policies for Wireless Downlink with Correlated Random Connectivity and Multislot Reconfiguration Delay, with Amit Kumar - Accepted to IEEE Communications Letters.
- J3: [Bayesian quickest change detection for active sensors](#) - In IEEE Communications Letters, November 2016.

- J2: [Analytical Identification of Anchor Nodes in a Small-World Network](#), with Abhishek Chakraborty and B. S. Manoj - In IEEE Communications Letters, June 2016.
- J1: [Asymptotic Bounds on the Power-Delay Tradeoff for Fading Point-to-Point Links From Geometric Bounds on the Stationary Distribution of the Queue Length](#), with Utpal Mukherji - In IEEE Transactions on Information Theory, 2015.

Conferences & Workshops

- C12: Optimal Association of Wireless Devices to Cellular and Wi-Fi Base Stations, with Chandramani Singh - accepted to NCC 2018.
- C11: Throughput Optimal Scheduling for Wireless Downlinks with Reconfiguration Delay - accepted to NCC 2018.
- C10: Power control and cross-layer design of RPL objective function for low power and lossy networks, with Harshavardhana T. G., SVR Anand, and Malati Hegde - COMSNETS, 2018.
- C9: Stability and delay analysis of delay tolerant networks with random message arrivals, with Sarath A. Y. and Chandramani Singh - COMSNETS, 2017.
- C8: Power delay tradeoff for dynamic data compression and transmission over a wireless channel, with Utpal Mukherji - In Proceedings of Signal Processing and Communications, IISc, 2016.
- C7: Influence of Greedy Reasoning on Network Evolution, with Abhishek Chakraborty and B. S. Manoj - Indo-US Bilateral Workshop on Large Scale Complex Network Analysis 2015 (LSCNA - 2015)
- C6: [On power-law decay exponents and Barabasi models for subscriber usage behaviour in mobile networks](#), with Jobin Wilson and Prateek Kapadia - In Proceedings of the National Conference on Communications (NCC), 2015.
- C5 : [Tradeoff of average service cost and average delay for the state dependent M/M/1 queue](#), with Utpal Mukherji - In Proceedings of the National Conference on Communications (NCC), 2013.
- C4 : [Tradeoff of average power and average delay for a point-to-point link with fading](#), with Utpal Mukherji - In Proceedings of the National Conference on Communications (NCC), 2013.
- C3 : [Delay optimal scheduling of a discrete time batch service queue for point-to-point channel code rate selection](#), with Utpal Mukherji - In proceedings of the National Conference on Communications (NCC), 2012.

- C2 : [Queueing delay - error probability tradeoff for point-to-point channels with fixed length block codes](#), with Utpal Mukherji - In proceedings of the IEEE International symposium on Information Theory (ISIT), 2011.
- C1 : [Average-delay optimal policies for the point-to-point channel](#) with Utpal Mukherji - In proceedings of the 7th international symposium on modeling and optimization in mobile, ad hoc, and wireless networks (WiOpt), 2009.