

## Short Biography of Abhishek Chakraborty

Abhishek Chakraborty is currently working as a Senior Project Officer in the Department of Computer Science and Engineering (CSE) at the Indian Institute of Technology (IIT) Madras, India. He was also an Institute Post Doctoral Fellow in the Department of CSE, IIT Madras, where his primary responsibilities included applying the concept of complex network analysis to develop novel architecture and protocol solutions to enhance the QoS of next-generation wireless networks. Prior to joining IIT Madras, he served as a Senior Project Fellow at the Department of Avionics, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, India, where he investigated on the development of an efficient integrated enterprise network security system.

He completed PhD in 2018 from IIST, where he mainly focused on understanding the evolution of finite sized complex networks and applying the observations to design efficient technological networks such as ad-hoc networks for disaster response scenarios, computer networks, communication networks, next-generation wireless networks, and transportation networks. Prior to that, he received his BTech in Electronics and Communication Engineering (ECE) from Maulana Abul Kalam Azad University of Technology (formerly West Bengal University of Technology), West Bengal, India, and ME in ECE from Birla Institute of Technology, Mesra, Ranchi, India, in 2007 and 2012, respectively. He worked as a Programmer Analyst with Cognizant Inc., Kolkata, India from 2007 to 2009. During 2012–2013, he served as the IEEE Student Branch Chair at IIST. He is a Member of the IEEE and ACM.

He co-authored a textbook: *Complex Networks: A Networking and Signal Processing Perspective* (Prentice Hall PTR, New Jersey, USA, February 2018). Apart from that, one of his co-authored publications titled “Graph Fourier transform based on directed Laplacian” was selected for the Springer Best Student Paper award at the 11th International Conference on Signal Processing and Communications (SPCOM) 2016, Bangalore, India. His current research interests include network science, algorithm design for complex

networks, computer networks, wireless mesh networks, wireless sensor networks, and efficient design of softwarized 5G networks.

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