# Short Biography of Abhishek Chakraborty

Abhishek Chakraborty is currently an Institute Post Doctoral Fellow in the Department of Computer Science and Engineering at Indian Institute of Technology Madras, India, where his primary responsibilities include applying the concept of complex network analysis in order to develop novel architecture and protocol solutions to enhance the QoS of next-generation wireless networks. Prior to that, he was 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.

Chakraborty 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. Chakraborty is Member of the IEEE and ACM.

He recently 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 recent 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, complex networks, computer networks, wireless mesh networks, wireless sensor networks, design of next-generation wireless networks, and signal processing over networks.

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