

## **Amit K. Gupta** PhD CEng Fellow [IEEE IET IES]

Block 386, Bukit Batok West Ave 5, #04-354, Singapore–650386

Phone: +65 90267917 (mobile); 62403131 (work), E-mail: [amit.gupta@ieee.org](mailto:amit.gupta@ieee.org)

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Amit K. Gupta holds a bachelor's degree in electrical engineering from the Indian Institute of Technology (IIT)-Roorkee and a Ph.D. in Electrical Engineering from National University of Singapore (NUS). During 2000-12, he worked for Bechtel Corporation, Samsung Heavy Industries, Delphi Automotive Systems and Vestas Wind Systems. Since August 2012, he is Head of Rolls-Royce Electrical at Rolls-Royce Singapore Pte Ltd. He is Director of the Electrical Programme at Rolls-Royce@NTU Corporate lab and Rolls-Royce Director for the Electrical Power System Integration Lab @ NTU (EPSIL@N).



He holds 50 patents/patent applications and published more than 150 papers in international conferences and journals. He has been Adjunct Professor with a few universities. He holds a six sigma Green Belt Certificate from Delphi Automotive Systems and trained in six sigma Black Belt techniques through Vestas Wind Systems. He received inaugural 2016 IEEE R10 Industry-Academia collaboration award for developing world class electrical R&D lab EPSIL@N. He is recipient of several Rolls-Royce Engineering & Technology (E&T) Awards for Engineering Excellence. He's a recipient of Vestas Innovation excellence award 2009 for being top 5 innovators of Vestas Global Research. He is a recipient of several IEEE awards including the 2021 IEEE McMurray Award for Industry Achievements in Power Electronics and Prize paper from the IEEE Industrial Applications Society's (IAS) - Industrial Power Converter Committee (IPCC) for 2005. He is recipient of The IET Premium Awards 2019.

He is an IEEE IAS distinguished lecturer for 2022-23. He is an Associate Editor for IEEE Transitions on Power Electronics and plays an active role in organizing electrical power engineering conferences in Asia. He is Fellow of IEEE – USA, IET - UK, IES - Singapore, and a Chartered Engineer - Engineering Council (UK).