

## **Biography**

Professor ZQ Zhu has 37 years research experience on electrical machines and controls. He has been with the University of Sheffield for 30 years, where since 2000 he has been a Professor at the Department of Electronic and Electrical Engineering, and is currently Royal Academy of Engineering / Siemens Research Chair, Academic Director of Sheffield Siemens Wind Power Research Centre, Director of CRRC Electric Drive Technology (Fast Train Propulsion) Research Centre, Directors of Midea Electrical Machines and Controls Research Centres and Head of the Electrical Machines and Drives Research Group which consists of 6 research centres and >120 personnel, including 13 academic staff (7 full professors), >90 PhD students and post-doctoral Research Associates, and is one of the global largest research groups specializing on permanent magnet machines, power electronics, controls, and energy storage. His current major research interests include design and control of permanent magnet brushless machines and drives, for applications ranging from electrified transportation through domestic appliance to renewable energy, on which he has published >1000 papers including ~400 IEEE Transactions/IET Proceedings papers.

Professor Zhu is Fellow of Royal Academy of Engineering (UK), Fellow of IEEE (USA) and Fellow of IET (UK).