



## 5<sup>th</sup> International Conference on Power, Control & Embedded Systems (ICPCES-2023)

06<sup>th</sup> to 08<sup>th</sup> January, 2023

MNNIT Allahabad



**Keynote Speaker of Session K1(Jan 6, 11:30 AM-01:00PM) and K4 (Jan 7, 02:30 PM-03:30 PM)**



**Dr. Brij N. Singh**

Dr. Brij N. Singh has earned BE from Madan Mohan Malviya Technical University, Gorakhpur, ME from Indian Institute of Technology Roorkee, and Ph.D. from Indian Institute of Technology, New Delhi, India, all in Electrical Engineering. In 1996, Dr. Singh joined the École de Technologie Supérieure, Montreal, Canada, as a Post-Doctoral Fellow. In 1999, he joined Concordia University, Montreal as a Research Fellow. In 2000, he joined the Department of Electrical Engineering and Computer Science, Tulane University, New Orleans, Louisiana, as an Assistant Professor. In 2007, Dr. Singh has joined John Deere as a Staff Engineer to lead and support silicon IGBT inverter development projects for the JD 644K and JD 944K Hybrid Loaders. In 2011, he joined Advanced Technology as a Senior Staff Engineer to lead John Deere's WBG power electronics projects. In 2020, Dr. Singh was named as the Region 4 Manager External Relationships with responsibilities to develop emerging technologies to support technology needs for the John Deere Tech Stack, Production Systems, Product Lifecycle Systems, Construction & Road Building. Dr. Singh has published over 90 research articles including papers in the IEEE Transactions and IET Journals. He has 28 approved US patents, one trade secret, and over a dozen pending patents. In Tulane, Dr. Singh received four IEEE-Eta-Kappa-Nu teaching awards for outstanding instructions in electrical engineering. In John Deere, he has received three innovation and one collaboration awards for product and technology development projects. Dr. Singh is the winner of the 2020 IEEE Power Electronics Emerging Technology Award for "In-Vehicle Demonstration of Engine-Cooled Power-Dense Scalable SiC Inverter". In 2020, Dr. Singh was awarded the "Title of John Deere Fellow" for exemplary knowledge leadership and significant contributions to the power electronics engineering. He is an IEEE Fellow and life member of IEEE Industrial Electronics and Power Electronics Societies and lives with his family in West Fargo, ND, USA.



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**Keynote Speaker of Session K2 on Jan 6 02:00 PM-03:30 PM**



**Er. Joseph Sajan Jacob**

As design technocrat and a serial entrepreneur with more than 35 years of International experience, Joseph brings a full range of strategic engineering and management expertise, a broad understanding of The issues facing a multinational business in the energy industry and an in-depth knowledge of electronic, Electrical and magnetic theories. He has specialized extended knowledge in energy generation & storage, core engineering fields, artificial intelligence applied engineering, and magnetic quantum computers etc. In the information technology and engineering fields, Joseph has spearheaded architecture efforts, implementing designs and methodologies, and managed development teams through all phases of large-scale inter-disciplinary engineering technology solutions with deep technological know-how, including cost analysis, planning, implementation and support with excellent management skills. Jacob's diverse background includes an extensive knowledge of green energy-based technologies, enterprise technology and architecture, networking, telecommunication, ERP, security, and standards compliance, custom software development, bio-engineering, energy storage and the seamless integration of emerging technologies in large user communities. He holds the credit of successfully starting and running the multinational companies in the early years of Dubai Free Zone, U.A.E., Kochi Info-Park, India, and multiple successful companies in the USA. Jacob holds multiple patents and copyrights for Green Energy, and other engineering technologies, with more patents in pending status. Joseph holds an engineering degree from the National Institute of Technology India (NIT) 1985, as Research Engineer in Indian Institute of Technology, (IIT) 1989, and OPM from Harvard Business School,(HBS) 2001 USA. He has published multiple research papers in IEEE India chapter on communications and bio-engineering. He is a member of IEEE.



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**Keynote Speaker of Session K3 on Jan 7 12:00 PM-01:00 PM**



**Dr. Balanthy Abdul Rahiman Beig**

Dr. Balanthy Abdul Rahiman Beig ((M'92–SM'03) received the Bachelor's degree from the National Institute of Technology Suratkal, India in 1989, the Master and Ph.D. degree from the Indian Institute of Science, Bangalore, in 1998 and 2004, respectively. He is currently an Associate Professor, at the Department of Electrical Engineering and Computer Science, Khalifa University, Abu Dhabi, UAE. His current research focus is on advanced drive train for electric vehicles, fault tolerant operation in EVs, wireless power transfer, high gain bidirectional DC to DC converters and auto tuning of grid connected converters. Dr. Beig is serving as Associate Editor for the IEEE Transaction on Transportation Electrification. Previously he has served as Associate Editor for the IEEE Transaction on Industrial Application. Dr. Beig has supervised several PhD and MSc thesis. Dr. Beig has successfully completed industry-sponsored projects on mitigation of the power quality problems in oilrigs. Dr. Beig has excellent industrial experience, especially in the design of inverters, DSP/FPGA based embedded controllers, and development of control algorithms for electric drives. From 1989 to 1992, Dr. Beig was with M/S Kirloskar Electric Company, Ltd, Mysore, India, as a R&D Engineer. Dr. Beig has received the Khalifa University Best in Teaching Award in 2010 and the Khalifa University Research Award in 2013. (Contact detail, E-mail: [balanthy.beig@ku.ac.ae](mailto:balanthy.beig@ku.ac.ae), IEEE and IES member, Membership No: 40063699)



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**Keynote Speaker of Session K6 on Jan 8 12:00 PM-01:00 PM**



**Dr. Rajeev Kumar Singh**

Dr. Rajeev Kumar Singh received the B.Tech. degree in electrical engineering from the College of Technology, Pantnagar, India, in 2001, the M.Tech. degree in electrical machines and drives from the Indian Institute of Technology (Banaras Hindu University), Varanasi, India, in 2003, and the Ph.D. degree in electrical engineering from the Indian Institute of Technology Kanpur, Kanpur, India, in 2013. He is currently an Associate Professor with the Department of Electrical Engineering, Indian Institute of Technology (Banaras Hindu University). His research interests include renewable power conversion for hybrid microgrid, power conversion for electric vehicles/hybrid electric vehicles, optimal charging/discharging of energy storage system, and converter modelling and control. He has published 32 Transaction/Journal papers and 63 IEEE conference papers. He has authored 2 book chapters and has published 2 patents. Dr. Singh has supervised 6 Ph.D and 44 masters students. He has successfully completed 5 sponsored projects and 6 projects are currently underway with him. Dr. Singh is working on next generation low cost onboard technology development to improve the charging infrastructure for EVs in the country. Dr. Singh was awarded Shyama Varshney BENCO-64 Best Educator Award by IIT (BHU) Varanasi in 2021. Presently, he is Associate Dean (Academic Affairs)-UG and also looking after various other administrative positions in IIT(BHU) Varanasi.



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**Keynote Speaker of Session K5 on Jan 7 05:00 PM-06:00 PM**



**Dr. Kishore Naik Mude**

Kishore Naik Mude received his B.Tech. degree in Electrical Engineering from Sri Venkateshwara University, Tirupati, India, in 2008, and his M.Tech. degree in Electrical Engineering from the Motilal Nehru National Institute of Technology, Allahabad, India, in 2010. From 2010 to 2011, he was a Lecturer at Amity University, Noida, India. He graduated with his Ph.D. degree in Electrical Engineering from the University of Padova, Italy, in March 2015. Presently he is working as a senior electrical research engineer with solace power, Canada. Prior to this, he was working with Systec R&D, Porto, Portugal and he also served as an Asst. Professor in Amrita Vishwa Vidyapeetham University, Bengaluru campus, India. He received the Prestigious European fellowship CARIPARO sponsored by Italian Bank, for three years of his doctoral study. He was invited for a talk on Wireless Battery chargers in various organizations in India and abroad. His current area of research includes Wireless Power Transfer and magnetics. He organized and chaired special sessions in the area of Wireless Power Transfer.