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His major research interests include Power System Protection, PMU and WAMS and Smartgrid. With 4 patent, 158 peer reviewed international journals and 94 conference proceedings, his research appeared in top power engineering journals such as IEEE Transactions, IET Proceedings and Elsevier etc. The research outcomes have been cited more than 10020 with h-index of 52 and i-1- index of 153.

Received several national and international recognitions of high repute including Top 2 % scientist by Stanford University, SERB STAR Award-2021, Director's Commendation for Outstanding Research-2021, IEEE PES Chapter Outstanding Engineer Award-2020, NASI-SCOPUS Young Scientists Awards-2015, IEEE PES Technical Committee Prize Paper Award-2012, USA, Samanta Chandra Sekhar Award-2010 and Young Scientists, Odisha Bigyana Acadmey-2007, INAE innovative Doctoral thesis award-2008, Institutes of Engineers (IEI) Young Engineer Award-2009 etc.

He served as the Associate Editor of IEEE Systems Journal, past Editor of IEEE Transactions on Smart Grid, IEEE Transactions on Power Delivery, Associate, IET, Generation, Transmission & Distribution and Guest Editor, IEEE Sensor Journal. He serves as a member of IEEE Task Force on Big Data Analytics for Synchro-Waveform Measurements and IEEE Power Systems Stability Sub-Committee.

He is Fellow of Indian National Academy of Engineering (FNAE), Institution of Engineering and Technology (FIET), UK and Senior Member, IEEE.

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