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He worked as a Post-Doctoral Fellow at Charles Delaunay Institute, University of Technology of Troyes, France during 2007-2008. He served as an Assistant Professor at Communication Research Center, International Institute of Information Technology, Hyderabad, India during 2008-2009. He served as an Assistant Professor at Department of Electrical Engineering, IIT Indore, India during 2009-2013. He worked as an Associate Professor at Department of Electrical Engineering, IIT Indore during 2013-2017 where presently he has been working as a Professor since 2017. Currently, he is also associated with Center for Advanced Electronics at IIT Indore. He was a Visiting Professor at Neural Dynamics of Visual Cognition Lab, Free University of Berlin, Germany during July-September, 2022. He has served as a Visiting Professor at School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Malaysia during 2018-2019. Previously, he has worked as a Visiting Scholar at Intelligent Systems Research Center, Ulster University, Londonderry, UK during December 2014.

His research interests are in the areas of Signal and Image Processing, Biomedical Signal Processing, Non-stationary Signal Processing, Speech Signal Processing, Brain-Computer Interfacing, Machine Learning, and Artificial Intelligence & Internet of Things in Healthcare.

He is an Associate Editor of Electronics Letters, IEEE Transactions on Neural Systems and Rehabilitation Engineering, Biomedical Signal Processing and Control and an Editor of IETE Technical Review journal. He is a senior member of IEEE and a Fellow of IETE, IEI, and IET. He has served as member of review boards for more than 100 scientific journals. He has also served in the scientific committees of various national and international conferences. Presently, he is serving as a Conference Chair for 2023 2nd International Conference on Image, Signal Processing and Pattern Recognition, Changsha, China. He has delivered more than 250 talks and lectures in conferences, workshops, short term courses, and academic events organized by various institutes. He has been ranked #21 in India among top scientists for 2022 in the field of Computer Science by Research.com website (March, 2022). He has been listed in the world's top 2 % scientists in the study carried out at Stanford University, USA (October, 2020, October, 2021, and October, 2022). He has received several awards including Achievement Award (IICAI conference, 2011), Best Paper Award (ICHIT conference, 2012), Excellent Grade in the Review of Sponsored Project (DST, 2014), Best Research Paper Awards (IIT Indore, 2015 & 2016), Premium Awards for Best Papers (IET Science, Measurement & Technology journal, 2019 & 2020), IETE Prof. SVC Aiya Memorial Award (2021), and Best Paper Award (DSPA Conference, 2022).

He has supervised 15 Ph.D., 23 M.Tech., and 42 B.Tech. students for their theses and projects (14 Ph.D., 03 M.Tech., 01 M.S. (by Research), and 07 B.Tech. under progress). He has 271 publications which include journal papers (166), conference papers (75), books (08), and book chapters (22). He has also three patents: 01 Australian patent (granted) and 02 Indian patents (filed). His publications have been cited approximately 12,000 times with h-index of 58 according to Google Scholar. He has worked on various research projects with funding support from SERB, DST, DBT, CSIR, and ICMR.