



Professor Asoke K. Nandi received the degree of Ph.D. in Physics from the University of Cambridge (Trinity College), Cambridge (UK). He held academic positions in several universities, including Oxford (UK), Imperial College London (UK), Strathclyde (UK), and Liverpool (UK) as well as Finland Distinguished Professorship in Jyväskylä (Finland). In 2013, he moved to Brunel University London (UK), to become the Chair and Head of Electronic and Computer Engineering.

In 1983 Professor Nandi co-discovered the three fundamental particles known as W^+ , W^- and Z^0 (by the UA1 team at CERN), providing the evidence for the unification of the electromagnetic and weak forces, for which the Nobel Committee for Physics in 1984 awarded the prize to his two team leaders for their decisive contributions. His current research interests lie in signal processing and machine learning, with applications to communications, image segmentations, biomedical data, etc. He has made many fundamental theoretical and algorithmic contributions to many aspects of signal processing and machine learning. He has much expertise in “Big and Heterogeneous Data”, dealing with modelling, classification, estimation, and prediction.

He has authored over 600 technical publications, including 250 journal papers as well as five books, entitled “Condition Monitoring with Vibration Signals: Compressive Sampling and Learning Algorithms for Rotating Machines” (Wiley, 2020), “Automatic Modulation Classification: Principles, Algorithms and Applications” (Wiley, 2015), “Integrative Cluster Analysis in Bioinformatics” (Wiley, 2015), “Blind Estimation Using Higher-Order Statistics” (Springer, 1999), and “Automatic Modulation Recognition of Communications Signals” (Springer, 1996). The H-index of his publications is 80 (Google Scholar) and his ERDOS number is 2.

Professor Nandi is a Fellow of the Royal Academy of Engineering (UK) as well as a Fellow of seven other institutions, including the IEEE and the IET. Among the many awards he received are the Institute of Electrical and Electronics Engineers (USA) Heinrich Hertz Award in 2012, the Glory of Bengal Award for his outstanding achievements in scientific research in 2010, the Water Arbitration Prize of the Institution of Mechanical Engineers (UK) in 1999, and the Mountbatten Premium, Division Award of the Electronics and Communications Division, of the Institution of Electrical Engineers (UK) in 1998. Professor Nandi is an IEEE EMBS Distinguished Lecturer (2018-19).