Alok Barua received a B.S. (Hons) in Physics (Calcutta University), a B. Tech in Instrumentation and Electronics Engineering and M.E.Tel.E. in Electronics and Telecommunication Engineering (Jadavpur University) and a Ph.D. (Indian Institute of Technology, Kharagpur) in 1973, 1977, 1980 and 1992 respectively. In 1985 he joined the Department of Electrical Engineering, IIT kharagpur, where is now a Professor. He received the IETE's S.K. Mitra memorial best paper award in 1982. With thirty two years of teaching experience he has published many papers in his teaching and research areas- instrumentation, image processing, testing and fault diagnosis of analog and mixed signal circuit. He also holds a patent for the design of 'See Saw Bioreactor'. He had delivered invited lectures in many different universities of USA, Europe and Far East. He worked as Visiting Professor/ Guest Professor/ Research Professor in University of Arkansas, USA, University of Karlsruhe, Frankfurt University, Yonsei University, Korea University and other institutions of the world. He co-authored, with S. Sinha, Computer Aided Analysis, Synthesis and Expertise of Active Filters (Dhanpat Rai & Sons, Delhi) in 1995. He also co authored the book entitled "Fault Diagnosis of Analog Integrated Circuit", published Springer, USA in the year 1995. He authored the book entitled "Fundamentals of Industrial Instrumentation", and "Analog Signal Processing: Analysis and Synthesis" published by Wiley India in 2011 and 2014 respectively. He also co authored the book "Biorecators: Animal Cell Culture Control for Bioprocess Engineering, CRC Press, 2015. He also co authored two research monograms entitled "3D Reconstruction with Feature Level Fusion" and "Studies on Certain Aspects of a Newly Developed See Saw Bioreactor for animal Cell culture", published by Lambert Academic Publishing, Germany in 2010 and 2011 respectively.

Dr. Barua is a senior member of IEEE.