**IHFC Project Director Profile**

Prof. Subir Kumar Saha, a 1983 Mechanical Engineering graduate from RE College (Now NIT), Durgapur, India, completed his M. Tech from IIT Kharagpur, India, and Ph. D from McGill University, Canada. Upon completion of his Ph. D, he joined Toshiba Corporation’s R&D Center in Japan. After 4-years of work experience in Japan, he has been with IIT Delhi since 1996.

He is actively engaged in teaching, research, and technology transfer. He completed sponsored projects and consultancies worth about Rs. 14 crores (~ USD 2.0 millions). Prof. Saha was awarded the Distinguished Alumnus Award for 2020 in Academic and Research by NIT Durgapur. He established the Mechatronics Laboratory at IIT Delhi in 2001, and contributed significantly in the development of the Programme for Autonomous Robotics during 2010-16 with the funding from BARC/BRNS, Mumbai. As a recognition of his international contributions, Prof. Saha was awarded the Humboldt Fellowship in 1999 by the AvH Foundation, Germany. He has been also visiting faculty at IIT Madras, and short-term researcher at McGill University, Canada, Monash University, Australia, and University of Verona, Italy. He was Naren Gupta Chair Professor at IIT Delhi during 2010-20, and presently acting as the Project Director of IHFC (a non-profit company of IIT Delhi in the area of Cobotics).

Prof. Saha published a text book in 2008 on “Introduction to Robotics” published by McGraw-Hill in India and Singapore. It was also translated in Mexican Spanish. To aid the learning of robotics, RoboAnalyzer software was developed in 2009 under his supervision. He also co-authored several specialized books published by Springer, e.g., 1) “Dynamics of Tree-type Robotics Systems” supported with ReDySim (Recursive Dynamics Simulator) software; and 2) “Dynamics and Balancing of Multibody Systems.” He has more than 200 research publications in reputed journals/conference proceedings, and delivered more than 240 invited/keynote lectures in India and abroad.

Prof. Saha occupied several administrative positions at IIT Delhi. He was the Head of the Department of Mechanical Engineering during 2015-18, Associate Dean of Students during 2009-12, Vice-Chairman of GATE/JAM/GMAT examinations during 2008-09, President of BRCA during 2010-11, and others. Presently, he is the Coordinator of the Rural Technology Action Group (RuTAG) at IIT Delhi, a programme sponsored by the Office of the Principle Scientific Adviser to the Govt. of India. Prof. Saha is the Vice-President (Academic) of The Robotics Society (formally known as Robotics Society of India), and National judge of the DD-Robocom competitions in India since 2005. During 2008-15, he was the Vice President of the Association of Machines and Mechanisms (An IFToMM body in India). His philanthropic interest spans over last two decades. Prof. Saha introduced awards/prizes in his school (Vidyasagar Vidyapeath in Midnapore, West Bengal), R.E. College (now NIT) Durgapur, DD-Robocon competitions, and Robotics club at IIT Delhi.