

Prof. Leena Vachhani, Professor-in-Charge

Leena Vachhani received her Ph.D. from IIT Madras, India, in 2009 in embedded robotics. She is currently a professor at the Systems and Control Engineering Group and Professor-in-Charge, Technology Innovation Hub at the IIT Bombay. She has contributed in the areas of embedded control and robotic applications that include topics on multi-agent mapping, exploration, patrolling, and coverage. She has developed laboratories on embedded control systems, autonomous robots and multi-agent systems with unique concepts. She has published 90+ peer-reviewed international journal and conference papers and 1 book on embedded control. She supervised 7 Ph.D., 40+ MTech and 20+ BTech theses. She has 2 granted and 3 filed patents. Two technologies, spherical robot and autonomous underwater vehicle, developed under her supervision, are undergoing technology transfer. She is a recipient of the 2013 DST young scientist award and currently serving in the Research Council of CSIR-CMERI. Her current R&D interests are perception modeling for single and multi-agent applications, edge computing for IoT, and multi-agent applications for IoT frameworks.