

Biography of the Candidate

Mr. Sangram Keshari Das completed his Bachelor of Engineering in Electronics & Instrumentation from Biju Patnaik University of Technology (BPUT), ODISHA and Master of Engineering from Thapar University, Patiala. He is presently pursuing his Ph.D. at BITS-Pilani and working as Assistant Professor in the Department of Automation at Banasthali University (BU), Rajasthan. He had worked as Research Fellow to work on Ministry of Information and Technology (MIT) sponsored research project entitle, “Design, development and engineering of a 28-DOF Humanoid robot (AcYut) capable of stable walking, object detection and obstacle avoidance”. He has 10 years of teaching experience at under-graduate and post-graduate levels. His areas of research interest are Mobile robotics, Mechatronics & Automation.

Biography of the Supervisor

Prof. B K Rout is presently working as Professor in the Department of mechanical engineering as well as Coordinator of Centre for Robotics and Intelligent Systems (CRIS) of Birla Institute of Technology & Science (BITS) Pilani, (Rajasthan) India. He has worked as Convener of Department Research Committee (DRC); Associate Dean in Academic Registration & Counselling Division (ARCD); Head of Department (HOD) in Mechanical Engineering. He has been working with BITS Pilani, Pilani Campus for the last twenty three years. He has been involved in classroom teaching, pursuing research, guiding research and Industrial consultancy project for last seventeen years. He has published several papers in various national and international journals and conferences. He has worked on a government funded sponsored research and development project to develop humanoid to avoid obstacles and handle specified objects in the environment. Prior to joining BITS Pilani, he worked for three years in Industry. His current research interest are in the area of rehabilitation robotics, industrial robotics and the use of statistical techniques to model, synthesize and optimize complex dynamic systems; statistical methods for system design, parameters design and tolerance design of mechanical equipment. He has been guiding research students in mobile robotics, robust

design of manipulator, topological optimized compliant structure and mechanism areas. He is actively involved in teaching and consultancy of subjects related to robotics, mechatronics, and quality engineering and operation research. He has selected as IUSSTF Research Fellow in the year 2012 to conduct research at Rehabilitation Institute of Chicago, Affiliated to Feinberg School of Medicine, North Western University Chicago, Illinois (USA). He is a fellow of professional bodies like Institution of engineering (IE), Indian Institute of Industrial Engineers (IIIE), and member of Indian society for theoretical and applied mechanics (ISTAM).