

Jaydev Desai

Professor, Biomedical Engineering at Georgia Tech College of Engineering

Atlanta, GA, US

Jaydev Desai is an expert in the areas of medical robotics, image guided surgical robotics, and surgical simulation.

Biography

Dr. Jaydev P. Desai is currently a Professor and BME Distinguished Faculty Fellow in the Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech. He is also the Director of the Georgia Center for Medical Robotics (GCMR) and the Associate Director of the Institute for Robotics and Intelligent Machines (IRIM). He completed his undergraduate studies from the Indian Institute of Technology, Bombay, India, in 1993. He received his M.A. in Mathematics in 1997, M.S. and Ph.D. in Mechanical Engineering and Applied Mechanics in 1995 and 1998 respectively, all from the University of Pennsylvania. He was also a Post-Doctoral Fellow in the Division of Engineering and Applied Sciences at Harvard University. He is a recipient of several NIH R01 grants, NSF CAREER award, and was also the lead inventor on the "Outstanding Invention in Physical Science Category" at the University of Maryland, College Park, where he was formerly employed. He is also the recipient of the Ralph R. Teetor Educational Award. He has been an invited speaker at the National Academy of Sciences "Distinctive Voices" seminar series and was also invited to attend the National Academy of Engineering's U.S. Frontiers of Engineering Symposium. He has over 160 publications, is the founding Editor-in-Chief of the Journal of Medical Robotics Research, and Editor-in-Chief of the Encyclopedia of Medical Robotics (currently in production). His research interests are primarily in the area of image-guided surgical robotics, rehabilitation robotics, cancer diagnosis at the micro-scale, and grasping. He is a Fellow of IEEE, ASME and AIMBE.

Areas of Expertise

Surgical Simulation, Medical robotics, Human Augmentation, Image Guided Surgical Robotics

Affiliations

IEEE

Education

University of Pennsylvania

Ph.D. Mechanical Engineering

Indiana Institute of Technology - Bombay

B. Tech Mechanical Engineering

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