





Department of Mechatronics and IEEE-Robotics & Automation Society Student Branch Manipal Presents

3 Days Workshop on "Nuts and Bolts of Legged Robotics"

on 18th to 20th March 2023

Venue: M. V Seminar Hall, MIT, Manipal

Speakers



Mr. Manan Tayal, PMRF Robert Bosch Centre for Cyber Physical Systems (RBCCPS) Indian Institute of Science (IISc)







Mr. Vamshi Kumar Kurva, PMRF Robert Bosch Centre for Cyber Physical Systems (RBCCPS) Indian Institute of Science (IISc)





Mr. Aman Singh, PMRF Robert Bosch Centre for Cyber Physical Systems (RBCCPS) Indian Institute of Science (IISc)



Day 1:

Session 1: Evolution and Design of Legged Robots

Session 2: Reinforcement learning II - Basics and Importance

Session 3: Reinforcement learning III - Mathematical Learning in lieu with Robotics

Day 2:

Session 1: Optimal Controls (Basics, LQR, iLQR, DDP)
Session 2: Modern Predictive Control for Legged Robots

Session 3: Introduction to Simulation Environments like MuJoCo and Python based Simulation

Day 3

Session 1: Introduction of Current work in stochastic robotic lab

Session 2: Linear Policy Based Locomotion

Session 3: Safety Critical Control

Organizing Chairman

Dr. D. V. Kamath

Dept. of Mechatronics

MIT Manipal

Conveners

Dr. Narendra Khatri Dr. Ramya S Moorthy Dr. Umesh kumar Sahu

Registration Fees

Participants from MAHE: No Fees
Non-MAHE/External Participants
(Inclusive of GST):

UG/PG/PhD Scholar- ₹ 300/-Faculty- ₹ 500/-

Scan to Register

