#### About me

I am a PhD scholar and Prime Minister Research Fellow at Robert Bosch Centre for Cyber Physical Systems (RBCCPS) in IISc Bangalore.

I received by B.Tech. degree in Mechanical Engineering (2020) from National Institute of Technology, Raipur.

I started my career in the field of robotics especially on human robot interaction. My primary focus as a PhD student is on trajectory prediction using Inverse reinforcement learning, inverse optimal control, and other machine learning algorithms. I expanded my domain to control system, human-computer interaction for AR,VR and MR interface.

I work in <u>I3D lab</u> and Nahar Centre for Robotics and Prototyping at IISc Bangalore under the supervision of <u>Prof. Pradipta Biswas</u>.

### **Publications**

 Inverse Kinematics Analysis of Cassie Robot using Radial Basis Function Network

Mukund Mitra, Suman Raj, Shishir Kolathaya 2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA) DOI: 10.1109/IRIA53009.2021.9588698

# **Achievements**

- Prime Minister Research Fellowship, August 2021.
- Best paper award titled "Inverse Kinematics Analysis of Cassie Robot using Radial Basis Function Networks" in IEEE International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA), 2021.
- Late Breaking Result for poster presentation on "Tour Guide Social-Robots Task Coordination in Dynamic Indoor Environment" at IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2021),2021.
- Participated, qualified, and successfully completed IEEE Robotics and Autonomous Systems (RAS) Winter School on "SLAM in Deformable environments", Robotics Institute at University of Technology, Sydney, 2021.
- Participated, qualified, and successfully completed task on "Design and Analysis of Bio-inspired tricopter with Delta Manipulator for Industrial Applications" in ASME, Student Mechanism and Robot Design Competition (SMRDC), 2021.

- Presented as a speaker on "Human Aware Robot Motion Planning using RRT Algorithm in Industry 4.0 Environment" in IEEE Women in Science in Engineering group, Department of Electrical Engineering, IISc Bangalore, 2021.
- Acquiring **Prime Minister's Sarvottam Trophy** in honour of outstanding academic performance and **Prime Minister's scholarship** for 2016-2020.

## **Position of responsibility**

Member of Science for Rural India, SFRI.

## **Projects**

Please visit my website - <a href="https://mukundmitra.com/projects/">https://mukundmitra.com/projects/</a>

#### Contact

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