

Education

- 2024–Present **České vysoké učení technické v Praze (Czech Technical University in Prague)**,
PhD with Multi-robot Systems Group in Fakulta elektrotechnická (Faculty of Electrical Engineering).
- 2020–2023 **International Institute of Information Technology, Hyderabad**,
MS by Research in Electronics and Communication Engineering.
- 2016–2020 **Jawaharlal Nehru Technological University, Hyderabad**,
Bachelor of Technology in Electronics and Communication Engineering.

Publications

- [6] **Swati Dantu**, Robert Penicka, Martin Saska, *Simultaneous learning of state-to-state minimum-time planning and control*, In International Conference on Informatics in Control, Automation and Robotics, **ICINCO**.
- [5] Rishabh Dev Yadav*, **Swati Dantu***, Wei Pan, Sihao Sun, Spandan Roy, and Simone Baldi, *Modular Adaptive Aerial Manipulation under Unknown Dynamic Coupling Forces*, In IEEE/ASME **Transactions on Mechatronics**.
- [4] **Swati Dantu**, Rishabh Dev Yadav, Ananth Rachakonda, Spandan Roy, and Simone Baldi, *Adaptive Tracking and Anti-swing Control of Quadrotors Carrying Suspended Payload under State-dependent Uncertainty*, In IEEE/ASME **Transactions on Mechatronics**.
- [3] **Swati Dantu**, Rishabh Dev Yadav, Ananth Rachakonda, Spandan Roy, and Simone Baldi, *Adaptive Anti-swing Control for Clamping Operations in Quadrotors with Cable-suspended Payload*, In IEEE Conference on Decision and Control, IEEE **CDC** 2023.
- [2] **Swati Dantu**, Rishabh Dev Yadav, Spandan Roy, Jinoh Lee and Simone Baldi, *Adaptive Artificial Time Delay Control for Quadrotors under State-dependent Uncertainties*, In International Conference on Robotics and Biomimetics **ROBIO** 2022.
- [1] Amisha Bhaskar*, **Swati Dantu***, Spandan Roy, Jinoh Lee and Simone Baldi, *Adaptive Artificial Time Delay Control for Bipedal Walking with Robustification to State-dependent Constraint Forces*, In International Conference on Advanced Robotics **ICAR** 2021.

Experience

- Sept 2023 – Present **Research Fellow**, Multi Robot Systems Group, Czech Technical University, Prague, Czechia.
- Summer 2024 and 2025 **Teaching Assistant**, Cybernetics and Artificial Intelligence.
Teaching assistant for a EuroTeQ course at Faculty of Electrical Engineering, CTU
- Dec 2020 – Apr 2023 **Research Assistant**, Robotics Research Center (RRC) IIITH.
- May 2022 – Sept 2022 **Student Developer**, Google Summer of Code, 2022 @ ROBOCOMP, Extremadura, Spain.
- Jan 2022 – May 2022 **Teaching Assistant**, Advances in Robotics and Control.
Teaching assistant for a graduate level elective at IIITH

Skills

- Languages Python, C/C++, MATLAB/Simulink
- Software/Tools Pybullet, ROS/Gazebo, OpenAI gym, PyTorch
- Utilities Anaconda, Git, Jupyter Notebook, Bash, Latex