



## Pouya Pourakbarian Niaz

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### Short Biography

- Since 2024. Ph.D. student, University of Innsbruck, Innsbruck, Austria.
- 2020-2023. M.Sc. in Mechanical Engineering, [Robotics and Mechatronics Lab \(RML\)](#), Koç University, Istanbul, Turkey.
- 2020-2024. Research fellow, [KUIS AI Center](#), Koç University, Istanbul, Turkey.
- 2019-2020. Lab Assistant, Advanced Service Robots (ASR) Lab, University of Tehran, Tehran, Iran.
- 2016-2020. HVAC Systems Engineer, Frame-Sazeh, Tabriz, Iran.
- 2012-2016. B.Sc. in Mechanical Engineering, University of Tabriz, Tabriz, Iran.

### Research Interests

- Robot perception, learning, planning, and control.
- AI-Driven Adaptive Control in Robotics.
- Multi-Modal Human-Robot Interaction.

### Projects

- TÜBİTAK Grant EEEAG-117E645: Designing an Adaptive Fractional-Order Admittance Controller Using Machine Learning for Physical Human-Robot Interaction; Scientific and Technological Research Council of Turkey (TÜBİTAK), Istanbul, Turkey.

### Teaching

- Robotics, Koç University, Istanbul, Turkey. 2023-2024.

- Computer-Based Simulation and Modeling, Koç University, Istanbul, Turkey. 2023-2024.
- Mechanical Engineering Final-Year Project, Koç University, Istanbul, Turkey. 2020-2023.
- Hydraulics and Pneumatics, University of Tabriz, Tabriz, Iran. 2016.
- Computer Programming with C++, University of Tabriz, Tabriz, Iran. 2014.

## Publications

\* B. Guler, P. P. Niaz, A. Madani, Y. Aydin, and C. Basdogan, "An adaptive admittance controller for collaborative drilling with a robot based on subtask classification via deep learning," *Mechatronics*, vol. 86, p. 102851, 10 2022.

\* A. Madani, P. P. Niaz, B. Guler, Y. Aydin, and C. Basdogan, "Robot-Assisted Drilling on Curved Surfaces with Haptic Guidance under Adaptive Admittance Control," in *IEEE International Conference on Intelligent Robots and Systems*, vol. 2022 October. Institute of Electrical and Electronics Engineers Inc., 2022, pp. 3723–3730.

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