

Durgesh Haribhau Salunkhe

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I believe in approaching a problem from its foundation and achieving excellence through exploring unconventional yet efficient solutions.

Looking for: Exciting opportunities

- PhD in robotics
- Collaborations with industry and academic labs
- Publications in top tier journals and conferences
- Professional experience in product development
- Completed four international research projects
- Representative in International Study Council

Education

Nov '23

PhD in Robotics, CNRS

Cuspidal robots: Analysis, classification and application of 6R cuspidal serial robots

Advisors: Philippe Wenger, Damien Chablat

Sep '20

Ecole Centrale de Nantes

Robotics Engineering - Erasmus Mundus Master thesis: Optimal design of a robot mechanism for otological surgery

Professional Experience

Current Apr '24

Ecole Polytecnique Federale de Lausanne (EPFL), Swiss. Postdoctorate researcher.

Currently working in LASA lab

Mar '24 Jan '24

Centre National de Recherche Scientifique (CNRS), France. Research Engineer

- Worked on a mathematic conjecture on 6R cuspidal robots.
- Conducted a workshop on scientic presentations.

Oct '17

May '18

Indian Institute of Technology, Jodhpur

Junior Research Fellow, Robotics Laboratory

- Developed full-body sensorless active compliant 6dof parallel mechanism
- Collaborated with DFKI GmBh for an architecture of dynamic analysis

Jul '16 Oct '17

Grey Orange Robotics, Gurgaon, India

Design engineer, R&D Department

- Designed robotic grippers for automated logistics applications
- Design for impact loading leading to sort 50% heavier packages

Invited Talks (recent 2)

- Apr '24 Cuspidal robots: geometrical analysis and issues in path planning of 6R cobots, at Workshop on Kinematics of Robots in Linz, Austria
- Sep '23 Recent results on cuspidal robots, at Summer school on Singularities in Mechanisms and Robots

Courses

- Summer school on Singularities in Mechanisms & Robotic manipulators
- National Workshop on Human Collaborative Robotics
- Workshop on Robot modeling & control and, applications to aerial robotics

Research projects

- Efficient Certified Algorithms for Robot Motion Planning (ECARP)
- Design, control and trajectory generation of a quadrotor at Indian Institute of Technology, Jodhpur
- Design of a mechanism to eject and manipulate a radioactive part at Bhabha Atomic Research Centre, Mumbai

Scholarships

- Erasmus Mundus Consortium Scholarship, EMARO+
- Invest Your talent in Italy, 2019

Technical Skills

- Inventor Professional experience
- Maple Professional experience
- Python Professional experience
- CATIA Academic projects
- MATLAB Academic projects
- C, C++ Academic projects

Publications (top 2)

[Under review]6R cuspidal robots: kinematic issues and guidelines for path planning and design, in IJRR 2024

Trajectory planning problems in commercial cuspidal robots in ICRA 2023