

PERSONAL INFORMATION

Dr. Yang You

Defended my PhD thesis on 2023/02/22

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Homepage: <http://yangyou95.github.io/> (Pls check my planning demos)

EDUCATION

- 10/2019–02/2023 **Ph.D Candidate, Computer Science**
Lorraine University / INRIA Nancy Grand Est, Nancy, France
Lifelong Autonomy and interaction skills for Robots in a Sensing ENvironment (LARSEN Team)
Research topic: **Planning under uncertainties for robotics**
Thesis: Probabilistic Decision-Making Models for Multi-Agent Systems and Human-Robot Collaboration
Supervisors: Olivier Buffet, Vincent Thomas, Francis Colas
- 09/2018–09/2019 **M.Sc., Robotics**
Cranfield University, Bedford, UK
Project: Ball-catching robot based on control, planning and learning methods
Thesis: A human-robot collaboration decision-making framework for flying robots
- 09/2016–09/2019 **Ingénieur, Mechanical Engineering**
Institut National des sciences appliquées, Rouen, France
Selected for a double master's degree program at Cranfield University
- 03/2014–01/2016 **Bac+2, Preparatory school in Sciences**
Institut National des sciences appliquées, Rouen, France

RESEARCH EXPERIENCE

- 05/2023–05/2023 **Research Engineer**, Decision Making & Planning for Intelligent Robot Systems
Institute for AI Industry Research, Tsinghua University, Beijing, China
- 06/2019–09/2019 **Research Intern**, Planning algorithms for POMDPs & Dec-POMDPs
INRIA Nancy Grand Est, Nancy, France
- 06/2018–09/2018 **Research Intern**, Robotics Arm Control through Deep Reinforcement Learning
Laboratory of Complex System and Intelligence Science, Institute of Automation, Chinese Academy of Sciences, Beijing, China

PUBLICATIONS

International Conferences

1. Yang You, Vincent Thomas, Francis Colas, and Olivier Buffet. Monte-Carlo Search for an Equilibrium in Dec-POMDPs. In *Proc. of the 39th Conference on Uncertainty in Artificial Intelligence (UAI)*, 2023 (Accepted to appear)
2. Yang You, Vincent Thomas, Francis Colas, Rachid Alami, and Olivier Buffet. Robust Robot Planning for Human-Robot Collaboration. In *2023 IEEE Proc. of The International Conference in Robotics and Automation (ICRA)*, 2023 (Accepted to appear)
3. Yang You, Vincent Thomas, Francis Colas, and Olivier Buffet. Solving Infinite-Horizon Dec-POMDPs using Finite State Controllers within JESP. In *2021 IEEE 33rd International Conference on Tools with Artificial Intelligence (ICTAI)*, 2021

French National conferences

1. Yang You, Vincent Thomas, Francis Colas, Rachid Alami, and Olivier Buffet. Planification robuste pour la collaboration homme-robot. In *Actes des seizièmes journées francophones planification, décision, apprentissage pour la conduite de systèmes (JFPDA)*, 2022
2. Yang You, Vincent Thomas, Francis Colas, and Olivier Buffet. Résolution de Dec-POMDP à horizon infini à laide de contrôleurs à états finis dans JESP. In *Actes des seizièmes journées francophones planification, décision, apprentissage pour la conduite de systèmes (JFPDA)*, 2021

Journal

1. Lorenzo Vianello, Luigi Penco, Waldez Gomes, Yang You, Salvatore Maria Anzalone, Pauline Maurice, Vincent Thomas, and Serena Ivaldi. Human-humanoid interaction and cooperation: a review. *Current Robotics Reports*, 2(4):441–454, 2021

In Preparation

1. Yang You, Vincent Thomas, Francis Colas, Olivier Buffet, and ... Robust Online Planning for Interactive POMDPs. 2023

COMPETITIONS AND WORKSHOPS ATTENDED

May 2020 Huawei Code Craft, Round of 32, Overseas Division

Octobre 2020 ICAPS summer school on Automated Planning & Scheduling

TOOLS & LANGUAGES

C/C++, Julia, Python, ROS

Chinese (native), English (TOEIC: 900/990), French (TCF B2)