

Curriculum vitae

PERSONAL INFORMATION Zhongmou LI

💙 1 Boulevard Albert Einstein, 44300 Nantes, France

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Date of birth 19 Jan 1990 | Nationality China

JOB APPLIED FOR Post-doc at where I can go

CURRENT POSITION

Oct 2017 - Nov 2020 Ph.D. Student in Robotics

Institution LS2N, Centrale Nantes (ec-nantes.fr), France

Theoretical developments and experimental evaluation of a novel collaborative

Supervisors Isabelle Fantoni, Research Director CNRS, LS2N Nantes, isabelle.fantoni@ls2n.fr

Abdelhamid Cheiette, Assistant Professor, Centrale Nantes, abdelhamid.chriette@ls2n.fr

Vincent Bégoc, Researcher, Icam, vincent.begoc@icam.fr

Research

- Performed a complete analysis of quadrotor dynamics and control methods
- Analyzed aerial manipulation robots using convex analysis techniques limitations.
- Designed controllers and allocators for a novel aerial manipulation robot Flying Gripper
- Applied control and allocation methods in real-time experiments

WORK EXPERIENCE

Nov 2017 - Today Lab Assistant Teacher

Employer Centrale Nantes, France

Assistant instructor for practical sessions of local robotics master and engineering students

- Advanced modeling of robots
- Nonlinear control theory
- Control of linear multi-variable systems

Feb 2017 – Aug 2017

Research Assistant

Employer LS2N Nantes, France

Supervisors

Damien six, LS2N Nantes, damien.six@ec-nantes.fr

Abdelhamid Cheiette, Assistant Professor, Centrale Nantes, abdelhamid.chriette@ls2n.fr

Sébasiten Briot, Researcher CNRS, LS2N Nantes, sebastien.briot@ls2n.fr

Research

- Modeled a flying parallel robot consisting of guadrotors linked by passive links
- Conducted motion planning considering the dynamics constrain and quadrotors payload lim-
- Applied motion planed for flying paralle robot in real-time experimentations

FDUCATION AND TRAINING

Sep 2015 – Aug 2017

M.Sc in Advanced Robotics

Institution

Centrale Nantes. France

Thesis

Motion planning and control of a Flying Parallel Robot

GPA: 15.3/20

Main Topics

- Modeling of serial and parallel robots
- Linear and non-linear control of multi-variable systems

Sep 2013 – Apr 2015 M.Sc in Navigation, Guidance & Control

Northwestern Polytechnical University, China



GPA: 80.25/100

Sep 2009 – Aug 2013 B.Eng in Detection Guidance and Control Technology

Northwestern Polytechnical University, China

GPA: 82.91/100

RESEARCH SKILLS

- Robotics Quadrotors
 - Underactuated Hands
 - Serial and Parallel Robots
 - Humanoid Robots
 - Kinematic and Dynamic Modeling

- Control Linear, Non-linear Control
 - Adaptive Control
 - Sliding Model Control
 - Model Predictive Control

Programming

- ROS
- C++
- Matlab & Simulink
- Msc Adams
- Linux

LANGUAGE

Mother tongue Chinese

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	C1	B2
International English Language Testing System (IELTS) C1				
B1	B1	B2	B2	A2

French

English

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages

PUBLICATIONS

Zhongmou Li, Xiaoxiao Song, Vincent Begoc, Abdelhamid Chriette, and Isabelle Fantoni. "Dynamic Modeling and Controller Design of a novel aerial grasping robot". In: 23rd CISM IFToMM Symposium on Robot Design, Dynamics and Control (RoManSy 2020). Sapporo, Japan, Sept. 2020.