Curriculum vitae

PERSONAL INFORMATION

Zhongmou LI

- 1 Boulevard Albert Einstein, 44300 Nantes,France
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- zhongmouli.github.io

Date of birth 19 Jan 1990 | Nationality China

CURRENT POSITION

Oct 2017 – Nov 2020	**Ph.D. Student in Robotics**
Institution	LS2N, Centrale Nantes (ec-nantes.fr), France
Subject	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

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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 quadrotors linked by passive links
	− Conducted motion planning considering the dynamics constrain and quadrotors payload limitations.
	− Applied motion planed for flying paralle robot in real-time experimentations

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EDUCATION 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

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

PUBLICATIONS

[1] 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.

LANGUAGE

Mother tongue Chinese

Other languages

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

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