Benjamin Fasquelle

Phd student in robotics and computer science



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	Experience
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2018–2021	PhD in robotics , <i>LS2N, École Centrale de Nantes</i> , Theoretical and experimental study of innovative robot architectures inspired by the neck of birds: design and control. Supervised by Philippe Wenger and Christine Chevallereau, in the Robotique et Vivant team at LS2N, Nantes
2018	
2017	Summer Internship, Link prediction with sequences on online social networks. Supervised by Renaud Lambiotte, in the NaXys team at University of Namur, Belgium
2016	Summer Internship , <i>Visual servoing through mirror reflexion</i> . Supervised by Éric Marchand, in the LAGADIC team at INRIA Rennes
	Teaching
2018–2021	Supervision of Directed Work and Practical Work , <i>École Centrale de Nantes</i> . Algorithms and Programming, Systems and Database Students in the first year of engineering school - 86 hours per year
2015–2016	Interventions in elementary school , <i>École Normale Supérieure de Rennes</i> . Unplugged Computer Science activities in elementary school (CM1/CM2) Preparation of the activities and 4 interventions of 2 hours each
	Education
2018–2021	PhD , <i>LS2N, École Centrale de Nantes</i> . Robotics and Computer Science
2016–2018	Master of Computer Science, Rennes 1 University. Track Research and Innovation (R&I)
2015–2018	Magistère of Computer Science, École Normale Supérieure de Rennes. (2016-2018 : with normalien status)
2015–2016	Last year of Computer Science Bachelor Degree, Rennes 1 University. Track Research and Innovation (R&I)
2013–2015	Grandes Écoles preparatory class Maths/Physics - Option Computer Science, Lycée Clemenceau, 44 000 Nantes .
2013	Science High school diploma. Mathematics speciality
	Computer skills
	C/C++, Python, Matlab, Simscape, LATEX, OCaml : good

HTML, Java, Scala, Assembleur, Isabelle/HOL: basic

French mother tongue English B2 Spanish A2

Publications

Fasquelle, B., Furet, M., Khanna, P., Chablat, D., Chevallereau, C., & Wenger, P. (2020, May). A bio-inspired 3-DOF light-weight manipulator with tensegrity X-joints. In 2020 IEEE International Conference on Robotics and Automation (ICRA) (pp. 5054-5060). IEEE.

Fasquelle, B., Furet, M., Chevallereau, C., & Wenger, P. (2019, July). Dynamic modeling and control of a tensegrity manipulator mimicking a bird neck. In IFToMM World Congress on Mechanism and Machine Science (pp. 2087-2097). Springer, Cham.

Furet, M., Chablat, D., Fasquelle, B., Khanna, P., Chevallereau, C., & Wenger, P. (2019, August). Prototype of a tensegrity manipulator to mimic bird necks. In 24ème Congrès Français de Mécanique.

Böhmer, C., Abourachid, A., Wenger, P., Fasquelle, B., Furet, M., Chevallereau, C., & Chablat, D. (2019, October). Combining precision and power to maximize performance: a case study of the woodpecker's neck. In 44ème congrès de la Société de Biomécanique.

Marchand, E., & Fasquelle, B. (2017, September). Visual Servoing from lines using a planar catadioptric system. In 2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) (pp. 2935-2940). IEEE.

Website

http://perso.eleves.ens-rennes.fr/people/Benjamin.Fasquelle/

Interests

Sport Riding, Athletics