Benjamin Fasquelle

Phd student in robotics and computer science



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| | Experience |
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| | Experience |
| 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