

Aurelien Werenne

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Education

University of Liège <i>Master of Computer Science and Engineering, with focus on Intelligent Systems</i>	Liège, Belgium 2016–2019
Universidade de São Paulo <i>Exchange Semester</i>	São Paulo, Brazil 2018
University of Liège <i>Bachelor of Science in Engineering</i>	Liège, Belgium 2012–2016

Projects

Master Thesis : Energy-based Multi-Modal Attention (honors : *summa cum laude*)

In realistic situations, multi-modal neural networks could potentially receive input data with varying levels of perturbations among the modes, which may decrease the quality of the inference process. This thesis presents an innovative solution to this unsolved problem. It obtained promising results, up to a 20 percent performance gain on real-world perturbed data. The report and code can be found on my Github profile (see header).

Personal Project : Unknown environment mapping with two robots

Two robots were constructed and implemented from scratch. Their objective is to explore and map unknown environments as fast as possible. The main challenge was to induce a cooperative behaviour between the robots. A demonstration video is available on my portfolio website (see header).

Experience

ID Trust Medical <i>Production Engineer (intern)</i> Refine and automate processes in order to optimize the production flow.	Leuven, Belgium 2017
Erasmus Student Network <i>Event Coordinator (volunteer)</i> Organize cultural trips, sporting events, conversation tables and parties to facilitate integration of university exchange students (± 900 per year).	Liège, Belgium 2016-2017
Infinia <i>Software Developer (freelancer)</i> Develop a risk profiling system in the area of life insurances, where the system determines the investment profile of a client based on its answers to a list of calibrated questions.	Brussels, Belgium 2016

Skills

Programming skills: Python, C, C++, Java (work in progress), Matlab and SQL.

General expertise: Robotics, Algorithms, Deep Learning, Machine Learning and Artificial Intelligence.

Languages

French: Native proficiency
Dutch: Native proficiency
English: Full professional proficiency
Portuguese: Elementary proficiency