

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 (Erasmus Mundus)</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% 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 using multiple robots

Two robots were constructed and implemented from scratch. The objective is to explore and map unknown environments as fast as possible. One of the main challenges was to induce a cooperative behaviour between the robots. The final system achieved a 30% speedup on average, with respect to the mono-robotic exploration. A demonstration video is available on my portfolio website (see header).

Experience

ID Trust Medical <i>Production Engineer (intern)</i>	Leuven, Belgium 2017
Systematized and automatized several processes (e.g. inventory management) in order to optimize the production flow.	

Erasmus Student Network <i>Event Coordinator (volunteer)</i>	Liège, Belgium 2016-2017
Organized cultural trips, sporting events, conversation tables and parties to facilitate integration of university exchange students (± 900 per year).	

Infinia <i>Software Developer (freelancer)</i>	Brussels, Belgium 2016
Developed 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.	

Skills

Programming skills: Python (advanced), C (advanced), C++ (intermediate), Matlab (intermediate), Java (prior experience) and SQL (prior experience) .

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.