

Aurelien Werenne

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Education

Université de Liège (ULiège) <i>Master in Computer Science and Engineering with focus on Intelligent Systems</i>	Liège, Belgium 2016–2019
Universidade de São Paulo (USP) <i>Exchange semester (Erasmus Mundus)</i>	São Paulo, Brazil 2018
Université de Liège (ULiège) <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. I developed a novel approach to tackle 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

I designed, constructed and implemented two robots from scratch. Their objective being the exploration and mapping of unknown environments as fast as possible. One of the main challenges was to induce a cooperative behaviour between the robots. The resulting system achieved a 30% speedup on average with respect to the mono-robotic exploration. The demonstration video is available on my portfolio website (see header).

Experience

ID Trust Medical <i>Production Engineer (intern)</i>	Leuven, Belgium 04/2017–12/2017
Systematised and automatised several processes (e.g. inventory management) in order to optimise the production flow.	

Erasmus Student Network <i>Event Coordinator (volunteer)</i>	Liège, Belgium 09/2016–08/2017
Organised 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 03/2016
Built 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), PHP (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.