Aurelien Werenne

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Education

University of Liège Liège, Belgium

Master in Computer Science and Engineering with focus on Intelligent Systems

2016–2019

2018

Universidade de São Paulo

São Paulo, Brazil

Exchange semester (Erasmus Mundus)

Liège, Belgium

Bachelor of Science in Engineering

2012-2016

Projects

University of Liège

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 Leuven, Belgium

Production Engineer (intern)

2017

Systematised and automatised several processes (e.g. inventory management) in order to optimise the production flow

Erasmus Student Network

Liège, Belgium

Event Coordinator (volunteer)

2016-2017

Organised cultural trips, sporting events, conversation tables and parties to facilitate integration of university exchange students (± 900 per year).

Infinia Brussels, Belgium

Software Developer (freelancer)

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.