Aurelien Werenne

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Education

University of Liège   **Liège, Belgium**
Master of Computer Science and Engineering, with focus on Intelligent Systems   *2016–2019*

Universidade de São Paulo   **São Paulo, Brazil**
Exchange Semester   *2018*

University of Liège   **Liège, Belgium**
Bachelor of Science in Engineering   *2012–2016*

Projects

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

In realistic situations, multi-modal neural networks 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, and has obtained promising results, i.e. up to 20 percent performance gain on perturbed data. The report and code can be found on my Github profile (see header).

Personal Project : Unknown environment mapping with two robots

I constructed and implemented two robots from scratch, cooperating for the exploration of unknown environments. In particular, their objective is to map each environment as fast as possible. A demonstration video of the implemented system is available on my portfolio website (see header).

Experience

ID Trust Medical   **Leuven, Belgium**
Production Engineer (intern)   *2017*
Refine and automate processes in order to optimize the production flow.

Erasmus Student Network   **Liège, Belgium**
Event Coordinator (volunteer)   *2016-2017*
Organizing cultural trips, sport events, conversation tables and parties to facilitate integration of exchange students (± 900 per year) visiting our university.

Infinia   **Brussels, Belgium**
Software Developer (freelancer)   *2016*
Development of 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, C, C++, Java (In progress), Matlab and SQL.

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

Languages

English: Full professional proficiency

French: Native proficiency

Dutch: Native proficiency

Portuguese: Elementary proficiency