Postdoctoral Researcher in Multimodal Machine Learning

The department of Electronics and Informatics (ETRO) at Vrije Universiteit Brussel (VUB) in Belgium offers a postdoctoral position in machine learning.

Description of the project:
The successful candidate will work within the frame of a project, funded by imec, on multimodal data processing. Specifically, within the project, we have access to unique data, including mobile sensor measurements of air pollutants, traffic data, and satellite images. The aim is to design novel interpretable machine learning models which combine the aforementioned data modalities for tasks including but not limited to (i) anomaly detection, (ii) regression (e.g., air pollution inference) and (iii) forecasting (e.g., concentration of air pollutants).

Responsibilities:
- Design and implement innovative algorithms within the aforementioned project,
- Publish the results at top-tier venues in machine learning (e.g., ICLR, AAAI, NeurIPS), and
- Supervise junior researchers and support in teaching.

Profile and requirements:
- A PhD degree focusing on artificial intelligence, machine learning, and natural language processing or related;
- An excellent academic record with publications in top-tier scientific journals (e.g., TSP, JMLR, TPAMI, TNNLS) and conference proceedings (e.g., ICLR, AAAI, NeurIPS);
- Proven programming experience (e.g., Python, C++);
- Fluency in state-of-the-art machine learning frameworks (e.g., Tensorflow, PyTorch);
- Fluency in English and excellent scientific writing and presentation skills;
- Ability and will to support teaching and to (co-)supervise bachelor, master and PhD students.

What we offer:
- A two-year position which upon positive evaluation can be further extended;
- A competitive salary (including holiday allowance) and benefits,
- An international scientific environment driven by excellence in fundamental research,
- Opportunities for travelling to conferences and research visits to international partner research groups (e.g., at Duke University, UCLondon)

How to apply:
Interested candidates should send:
- a detailed curriculum vitae,
- a motivation letter related to the position’s profile,
- electronic copies of three key scientific publications, and
- the names of two potential referees

to the following contact person: Prof. Dr. Nikolaos Deligiannis via email at ndeligia@etrovub.be by March 22, 2020.

About the team:
The position is within Big Data team at the Department of Electronics and Informatics at Vrije Universiteit Brussel, Belgium. The team is also affiliated with imec, an international R&D and innovation hub in nanoelectronics and digital technologies.