

Prof. Dr. Tom Dhaene
iGent Tower
Technologiepark - Zwijnaarde 15
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DATE
05/07/2018

PhD Vacancy: Machine Learning for Electrical Engineering

Job Description

The goal of the PhD research is to develop state-of-the-art Machine Learning (ML) algorithms for various Electrical Engineering (EE) applications. In particular, we are looking for a PhD candidate that will work on developing generative modelling approaches for complex electromagnetic and electronics systems. While grounded in fundamental academic research, as a PhD candidate you will also participate in collaborative research with industrial and/or academic partners in Flanders and/or on a wider geographic scale (e.g., EU H2020 projects), in the framework of new/ongoing projects. The SURrogate MOdeling (SUMO) team lead by prof. dr. Tom Dhaene offers a fully funded PhD position, provided positive intermediate evaluation, starting fall 2018.

Your Profile

We are looking for candidates with the following qualifications and skills.

- You have (or will obtain in the next months) a master degree in Computer Science, Electronics-ICT, Informatics (Mathematical), or equivalent, with excellent ('honors'-level) grades.
- You are interested in and motivated by the research topic, as well as in obtaining a PhD degree.
- You have an open mind and a multi-disciplinary attitude.
- You have a strong interest in machine learning, and are eager to advance the state of the art. Experience with machine learning algorithmic approaches or frameworks (such as PyTorch and Tensorflow) is considered a plus.
- You have a strong interest in the design of complex electromagnetic and electronics systems. Experience with CAD tools (such as Advanced Design Systems or CST studio suite) is considered a plus.
- You have excellent analytical skills to interpret the obtained research results.
- You are a team player and have strong communication skills.
- Your English is fluent, both speaking and writing.

How to Apply

Send your application by email or any questions concerning this vacancy to dr. Domenico Spina (domenico.spina@ugent.be), indicating "Job Application: ML for EE" in the subject. Applications should include (1) an academic/professional resume, (2) a personal motivation letter, and (3) transcripts of study results, and (4) at least two reference contacts. After a first screening, selected candidates will be invited for an interview (also possible via Skype) as a first contact in a multi-stage selection process. Applications are considered until the vacancy is filled.