SUPSI

PhD Student in Machine Learning for Control Tasks

The University of Applied Sciences and Arts of Southern Switzerland (SUPSI) active in the fields of the natural and built environment, economics, technological innovation, applied arts, social work and healthcare, learning and training, has opened a position at the **Department of Innovative Technologies** (DTI), in particular the **Dalle Molle Institute for Artificial Intelligence** (IDSIA www.idsia.ch), for a PhD Student in the area of Machine Learning for Control Tasks. The occupancy degree is 100% and the contract is for a two-year position, with possibility of prolongation

Duties
- The successful applicant will carry out applied research on the use of state of the art machine learning and deep learning techniques applied to real-world control tasks.
- The work will be focused on the intersection of the fast-moving research on machine learning and deep learning (and in particular recent advances in domain adaptation, reinforcement learning and probabilistic programming) and several real-world application fields, on which the institute has extensive expertise and several ongoing projects. In particular, applications of interest include mobile robotics and industrial process control, with emphasis on additive manufacturing.
- The student will have significant freedom to explore these topics and will be closely supervised by prominent researchers in the area.

Requirements
Essentials
- Master degree with full honors preferably in computer science, or alternatively in a quantitative faculty such as engineering, physics, statistics or similar.
- Excellent programming skills.
- Excellent scientific writing skills.
- Good theoretical background in statistics and machine learning topics.
- Willingness to pursue an applied research thesis.

Desirable
- Documentable experience with the scientific python ecosystem.
- Completed projects on applied machine/deep learning topics.
- Autonomy as well as ability to work in a group.

We offer
- A two years contract with possibility of prolongation. The occupancy degree is 100%.
- Attractive salary, in line with Swiss standards.
- International working environment (English is the official language).
- Funded travels in case of papers accepted by international conferences.

Additional information
The requirements for this function are published within the "Direttive interne SUPSI" (direttiva 7a) and within "Regolamento del personale SUPSI" on the **following website**.

For further information please contact:
Alessandro Giusti
alessandro.giusti@supsi.ch

Applicants should submit the following documents, written in English:
1. Curriculum vitae with attachments.
2. List of three references (with e-mail addresses).
3. Letter of motivation
4. List of taken bachelor and master's exams taken with grades.

They will be considered only applications submitted electronically in English address submitted within **October, 14th 2018 through the appropriate form**.
Applications which are incomplete or sent after the deadline will not be considered.