SUPSI

Postdoc Researcher in data-driven modelling and control

The University of Applied Sciences and Arts of Southern Switzerland (SUPSI) active in the fields of natural and built environment, economics, technological innovation, applied art, social work and healthcare, learning and education, has opened two positions at the Department of Innovative Technologies (DTI), in particular the **Dalle Molle Institute for Artificial Intelligence** (IDSIA), for a **postdoc Researcher in the area of data-driven modelling and control.** The occupancy degree is 100%.

Tasks
- Basic research, aimed at publications in top journals and conferences.
- Applied research: collaboration with industrial partners in innovative projects.
- Acquisition of funds regarding both basic and applied research.
- The main research areas relevant to this position involve modelling and identification of dynamical systems, control theory, optimization, machine learning.

Requirements
Essentials
- The position is for researcher who has obtained a PhD since no more than 5 years.
- Master degree in Control Engineering, Mechatronics, Mechanical Engineering or Electrical Engineering.
- PhD focused on modelling, identification and control of dynamical systems.
- Excellent publication track (relative to the age/experience) in top journals and conferences of the field, such as Automatica, IEEE Transactions on Automatic Control, IEEE Transactions on Control Systems Technology, IEEE Conference on Decision and Control, IFAC World Congress.
- Excellent programming skills and proficiency with state-of-the-art libraries for system identification, control and optimization.
- Good knowledge of Matlab and Python.
- Proficiency in written and spoken English.
- Communication and collaboration skills.

Optional but preferential
- Good knowledge of algorithms and software for time-series analysis and machine learning.
- Experience in working in European and industrial projects.
- Good knowledge of written and spoken Italian.

We offer
- 2 years contract, with possibility of prolongation
- International working environment.
- Collaboration with a strong team of researchers in Machine Learning, Statistics and Control (http://ipg.idsia.ch).
- Development of your own professional skills and career progression.
- Participation in high-profile conferences, workshop and schools
- Attractive salary, in line with Swiss standards and the candidate's experience.

Additional information
The requirements for this function are published within the "Direttive interne SUPSI" (direttiva 7A) and within "Regolamento del personale SUPSI" on the website **www.supsi.ch** (follow SUPSI, Documenti ufficiali).

For further information, please contact:
Dario Piga

Applicants should submit the following documents, written in English:
- Curriculum vitae with publications list and possibly link to the thesis.
- List of exams and their grades obtained during the Bachelor and the Master of Science.
- List of three references (with e-mail addresses).
- Motivation letter, including a brief description of past research experience and future interests (1-2 pages).

Applications should be submitted electronically within **December, 30th 2018** through the **appropriate form**.
Applications which are incomplete or sent after the deadline will not be considered.