

3rd HBP Curriculum Workshop Series – ICT for non specialists

SPIKING NEURAL NETWORKS: APPLICATIONS TO COMPUTING, ALGORITHMICS, AND ROBOTICS

18 September 2019, TU Munich, Campus Garching, Germany

http://bit.ly/ICT_SNN2019

Application deadline: 21 August 2019

Spiking neural networks (SNN) are a special class of artificial neural networks (ANN), in which the information is transmitted by means of pulses (or spikes) rather than by firing rates. As SNNs have shown to be excellent control systems for biological organisms, they have the potential to produce good control systems for autonomous robots. This workshop aims to bring together neuroscientists with roboticists and computational researchers developing biologically-inspired learning algorithms for scientific and industrial applications.

In order to enrich the discussions of SNN and its applications to computing, algorithmics and robotics, we will have a hands-on session on spiking neural networks on the Neurorobotics Platform (HBP SP10).

The programme will combine lectures in the morning and hands-on sessions in the afternoon. The sessions will finish around 3:30 p.m. to allow participants to also attend the IEEE International Conference on Cyborg and Bionic Systems.

Application information

Application is open to the entire student community and early-career researchers, regardless of whether they are affiliated with the Human Brain Project or not. It is aimed to offer equal opportunities for all early-career researchers regardless of gender, age, origin, etc.

Participation fee: 90 €

The fee does not include travel and accommodation. Fees will be collected after participants have been selected.

Registration fee waivers are available for a maximum of five participants. Participants can apply for fee waivers prior to the application deadline by sending an email to curriculum.edu@humanbrainproject.eu.

Please also check with your supervisor how your institution can support you with regard to expenses for the attendance of the workshops. Further information about organisations offering travel support can also be found on our [website](#).

Scientific Chairs

Fabrice Morin | Technical University Munich

Organised by

Judith Kathrein | Medical University Innsbruck

Sylvia Aßlaber | Medical University Innsbruck

Contact

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Speakers confirmed

Wolfgang Maass (TU Graz, Austria)

Rüdiger Dillmann (FZI Forschungszentrum Informatik, Germany)

Jörg Conradt (KTH Royal Institute of Technology, Stockholm, Sweden)