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CALL for PAPERS

NAT2019 Neuroadaptive Technology Conference

Liverpool, UK
16th - 18th July 2019

www.neuroadaptive.org
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DEADLINE FOR ABSTRACTS: 31TH MARCH 2019

INTRODUCTION

Neuroadaptive technology utilises real-time measures of brain and body activity within closed loop Human-Computer Interaction to enable intelligent software adaptation. Real-time monitoring of these states, in combination with information concerning the situational context of the user, enables neuroadaptive technology to adapt to the person in ways that are both timely and personalised.

The goal of neuroadaptive technology is to extend communication bandwidth between people and computers by monitoring and modelling processes within the brain and central nervous system. The potential of neuroadaptive technology to significantly impact on current modes of human-computer interaction raises a number of human factors issues pertaining to machine autonomy and human-machine cooperation. The closed control loop at the heart of neuroadaptive technology encapsulates multidisciplinary methods, from neuroscientific measures to engineering wearable sensors, it encompasses the development of machine learning techniques, the design/evaluation of the neuroadaptive interface and assessment of societal impact.

This is a multidisciplinary conference with strong engagement with: applied neurosciences, mathematics, electronic engineering, robotics, computer science and human factors psychology.

The format of the conference is 3 Keynotes, up to 3 parallel sessions for oral presentations, poster presentations and demonstrations of Neuroadaptive Technology.

IMPORTANT DATES

Deadline for Abstracts

31st March 2019

Feedback to authors

30th April 2019

Early-bird registration

31st May 2019

Conference

16-18th July

REGISTRATION

Registration fee:

Early Bird (before 31/4/19)

300 Euro for the conference (inclusive Lunch) + 50 Euro for the Social Evening

Standard Registration

430 Euro for the conference (inclusive Lunch) + 50 Euro for the Social Evening

TOPICS OF INTEREST

BROAD AREAS

- Applied Neurosciences
- Signal Detection Methods / Machine Learning
- Human Computer Interaction

SPECIFIC TOPICS

- Passive brain-computer interfaces
- Physiological computing
- Robotics
- Affective Computing
- Neurofeedback
- Brain as Sensor
- Adaptive Automation
- Autonomous Driving
- User Modelling / Statistical Inference
- Closed-Loop Cognition
- Neuroergonomics
- Introspectibles for mental health
- Social Interaction
- Neurogaming
- Personalisation
- Wearable Sensors
- Digital Health
- Mobile Brain-Body Imaging

- Evaluation Methodology
- Neuroethics

PAPER SUBMISSION

Submissions to the main conference, including Research Track, Work-In-Progress Track, and Demo Sessions should be made through www.neuroadaptive.org/conference/2019/.

Submissions should be in the form of 1-page abstracts. A template will be made available on the website.

All abstracts will be blind reviewed by the Program Committee on the basis of technical quality, relevance to conference topics of interest, originality, significance, and clarity. Author names and affiliations must not appear in the submissions, and bibliographic references must be adjusted to preserve author anonymity.

All accepted abstracts will be published in the conference proceedings (probably through ELSEVIER). A selection of authors will be invited after the conference to submit full book chapters about their research.

ORGANIZING COMMITTEE

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