



Preliminary Call for Papers

The 9th IEEE International Winter Conference on Brain-Computer Interface



February 22~24, 2021, High1 Resort, Korea

General Co-Chairs

Seong-Whan Lee
Korea University, Korea
Klaus-Robert Müller
TU Berlin, Germany

Technically Sponsored by TC on Brain-Machine Interface Systems, IEEE SMC Society

Program Co-Chairs

Cuntai Guan
NTU, Singapore
Laehyun Kim
KIST, Korea

Different approaches to Brain-Computer Interfaces have been developed, each one with specific solutions that range from understanding and explaining cognitive functions over communicating with real and virtual environments by thought alone to real-time monitoring of cognitive states. The 9th International Conference on Brain-Computer Interface presents an overview, in-depth talks and discussions on the latest research at all levels of BCI research. Presentations will cover invasive recordings, semi-invasive ECoG, non-invasive EEG, non-invasive NIRS and fMRI measurements and potential combinations of the different methods. Additional focus will be devoted to advances in data analysis. The poster session will allow an informal open discussion space.

Program Committee

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Korea University, Korea
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Hanyang University, Korea
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Sang Wan Lee
KAIST, Korea
José del R. Millán
The U. of Texas at Austin, USA
Michael H. Smith
UC Berkeley, USA
Christian Wallraven
Korea University, Korea

Topics of Interest

The conference topics include, but are not limited to,

- Novel BCI paradigms to elicit and collect data in different settings
- Methods for the identification of mental status for BCI
- Novel ideas for the combination of different mental strategies
- Innovative theories or methodologies for user- or environment-adaptive BCIs
- Advanced machine learning techniques for bio-signal processing and classification
- Novel ideas and methodologies for multi-modal BCI
- Novel methods or concepts for neurofeedback
- Ideas for the advancement of BCI through open source collaboration
- Applications of BCI including games, neuro-rehabilitation, environment control, virtual reality, etc.
- Demos of BCI systems

Competition Co-Chairs

Seong-Whan Lee
Korea University, Korea
Klaus-Robert Müller
TU Berlin, Germany
José del R. Millán
The U. of Texas at Austin, USA

Submission Guidelines and Proceedings

Authors should prepare full papers with a maximum length of 6 pages (double-column, IEEE style, PDF) for review. Conference proceedings that meet IEEE quality review standards may be eligible for inclusion in the IEEE Xplore Digital Library. All the details can be found at <http://bci.korea.ac.kr>

Publication Co-Chairs

Han-Jeong Hwang
Korea University, Korea
Tae-Eui Kam
Korea University, Korea

Important Dates and Deadlines

Paper submission deadline: **December 15, 2020**

Acceptance notification: **January 15, 2021**

Camera-ready manuscripts deadline: **January 31, 2021**

Conference: **February 22~24, 2021**

Registration Chair

Dong-Joo Kim
Korea University, Korea

Venue

High1 Resort(<http://www.high1.com/>)

Local Arrangements Chair

Heung-Il Suk
Korea University, Korea

Sponsors:

IEEE Systems, Man, and Cybernetics Society

IEEE Brain Initiative

Korea Brain Education Society

Korea University Institute for Artificial Intelligence