



CALL FOR PAPERS

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The IEEE SMC 13th **Workshop on Brain-Machine Interface (BMI) Systems** will be held from October 1-4, 2023 as part of SMC 2023 flagship annual conference of the IEEE Systems, Man, and Cybernetics Society. The Workshop provides a forum for scientists to present research results and facilitate the interaction and intellectual exchange between researchers, developers, and consumers of BMI technology. We invite contributions reporting the latest advances, innovations, and applications in BMIs. The BMI Workshop is organized by the IEEE SMC Technical Committee on Brain-Machine Interface Systems.

Participation is free to all registered SMC 2023 attendees.

Call for Papers and Abstracts

We invite contributions reporting the latest advances, innovations, and applications in all fields related to BMI, including new neuroimaging modalities and sensor technologies, interfaces, protocols, signal enhancement and multimodal fusion, integration of BMIs with virtual/augmented reality, affective BMI, hybrid BMI, deep learning for BMI, neurorehabilitation, serious gaming, and emerging applications. These topics offer tremendous opportunity for collaborative and multi-disciplinary research, involving not only peers with expertise in the field of BMI and other neurotechnologies and those with expertise in systems engineering, human-machine systems, cybernetics, neuroscience, robotics, and artificial intelligence. The four-day Workshop will feature a series of **panels**, a **BR41N.IO brain-computer interface hackathon**, the ceremony of the BCI Award 2023, prominent **invited industry/academia speakers**, and presented **contributed papers** and **posters**.

This is the eighth year that the IEEE SMC BMI Workshop will host a **BR41N.IO Brain-Computer Interface Hackathon** with several cash prizes. The BCI Hackathon is a brainstorming and collaborative marathon designed to rapidly produce fully functional BCI prototypes with team members spread worldwide. The Hackathon will be held on October 1-2, 2023. Participation is free for SMC 2023 attendees. Learn more about the Hackathon projects, how to form/join a team, and how to register at br41n.io/IEEE-SMC-2023.

Make sure to submit your BCI project to the BCI Award 2023. You just need a 2-page description of your work and a short video showing your BCI research and projects. **Submission deadline is 1st of September 2023.** Further information can be found here: www.bci-award.com

Important Dates

Deadline for Full/Special Session Paper Submission: April 15, 2023

Notification of Full Paper Acceptance: May 15, 2023

Deadline for Abstract submissions: June 15, 2023

Notification of Abstract Acceptance: June 22, 2023

Deadline for Final Camera-Ready Paper Submission: July 1, 2023

Early-bird Registration Deadline: July 15, 2023

Deadline for «works in progress» abstract/poster submissions: August 18, 2023

Notification of «works in progress» abstract/poster acceptance: September 1, 2023

Conference website: http://musaelab.ca/bmi23/smc2023_bmi.html

Notes

- Author instructions, paper templates, and paper submission details for **full (4-6 page) papers** are available at <https://ieeesmc2023.org/contributing/paper-submission/>
- Based on reviews, **authors** will be invited to submit extended versions of their work to a special issue of the IEEE Transactions on Human-Machine Systems dedicated to the 2023 BMI Workshop.
- Accepted **papers not presented** at SMC 2023 **will not be included** in IEEE Xplore.
- **Abstracts (1-page)** describing works-in-progress and late breaking BMI research finding may be submitted following author instructions mentioned in the link above. Abstracts will **not** appear in IEEE Xplore (but will be listed on the Workshop website) and will be presented as posters.