AC 2021

15TH INTERNATIONAL CONFERENCE ON AUGMENTED COGNITION

Jointly held under one management and one registration with HCI International 2021

http://2021.hci.international/ac

Chairs
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HCI International 2021

24-29 July 2021

The Conference will be held virtually

The main goal of the field of Augmented Cognition is to research and develop technologies capable of extending the information management capacity of individuals through computing technologies. Augmented Cognition research and development is therefore focused on accelerating the production of novel concepts in human-system integration and includes the study of methods for addressing cognitive bottlenecks (e.g., limitations in attention, memory, learning, comprehension, visualization abilities, and decision making) via technologies that assess the user's cognitive status in real time. A computational interaction employing such novel system concepts monitors the state of the user, through behavioral, psychophysiological and/or neurophyiological data acquired from the user in real time, and then adapts or augments the computational interface to significantly improve their performance on the task at hand.

The Augmented Cognition (AC) Conference, an affiliated conference of the HCI International Conference, arrived at its 15th edition, solicits papers from academics, researchers, industry and professionals, on a broad range of theoretical and applied issues related to Augmented Cognition and its applications.

The related topics include, but are not limited to:

- The Era of Augmented Cognition: Theory and Practice
- Neural ergonomics and operational neural science
- Neuro Function, Activity, Structure, and Technology
- Physiological Measuring and Human Performance
- Cybernetics and Artificial Intelligence for adaptive training systems
- Cognitive Modeling, Perception, Emotion and Interaction
- Closed-Loop Human Machine Design and Development
- Cognitive Load and Performance
- Crowd-augmented cognition
- Understanding Human Cognition and Behavior in Complex Tasks and Environments

- Brain Activity Measurement: electroencephalography, fNIRS, eye tracking
- Novel brain-computer interface technologies
- Rehabilitation and Cognitive Aids
- Interactive technologies for population with special needs
- Reliable Neural-Interface Technology
- Accelerated Learning through augmented learning and training
- Biofeedback for applied science
- Shared Cognition, Team performance, and Decision Making
- Context aware adaptive techniques and systems
- Virtual and Augmented Reality Techniques for augmented cognition applications

Conference proceedings published by

Springer

Submission deadlines are available at the HCII 2021 website:
http://2021.hci.international/submissions