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 neurophysiological 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 14th 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:

- Adaptive Learning Systems
- Augmented Cognition in Training and Education
- Biotechnology and Neurotechnology
- Brain-Computer Interfaces
- Cognitive Load and Performance
- Cognitive Modeling, Perception, Emotion and Interaction
- Crowd-augmented cognition
- Electroencephalography and Brain Activity Measurement
- Human-Machine Symbiosis and Human-Machine Interface
- Interactive technologies for population with special needs
- Neural ergonomics and operational neural science
- Neuro Function, Activity, Structure, and Technology
- Novel brain-computer interface technologies
- Physiological Measuring and Human Performance
- Rehabilitation and Cognitive Aids
- Reliable Neural-Interface Technology
- The Era of Augmented Cognition: Theory and Practice
- Understanding Human Cognition and Behavior in Complex Tasks and Environments

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