



Special Track on

Cognition and Artificial Intelligence: Comparing Human Capability and Experience with Today's Computer Models

Cognitive psychology and artificial intelligence have provided valuable insights into the scope and limitations of understanding human thought and behavior. Advances in computer technology and tools are becoming more of a fixture in everyday life, and increasingly affecting how we think about artificial intelligence and cognition. This special track is motivated by these two fronts of research. First, we extend cognitive studies to include the social psychology of people's everyday life with technology, comparing human cognition and experience with today's computer models, and second, on this basis we seek appropriate applications using computer technology, and seek to improve computer models of cognition and AI programs. This approach might yield many new ideas for creating technology and tools that amplify the ability of people to think and work together (such as new approaches for building robots in real-world domains), as well as new psychological and social theories. As such, this track will cover a wide range of issues relating to today's computer model, cognitive modeling, and technology applications.

The goal of this special track is to spotlight theoretical, experimental, and empirical research that explains, integrates, and models human cognition with an interdisciplinary approach to using computer models, with a particular emphasis on comparing human capability and experience with today's computer models. This special track is an open forum for interdisciplinary research that spans the domains of cognitive and social psychology, computer science, philosophy, language and the learning sciences.