2025 ACT-R Workshop Schedule

The 32nd Annual ACT-R Workshop will take place on Tuesday July 29, 2025, as part of the MathPsych/ICCM conference. The general theme is the long-term future of cognitive architectures and unified theories of cognition. The sessions will last 1hr15' and will be devoted to specific topics. Each session will start with a 20' presentation to introduce the topic, followed by brief statements from each panel member then an open discussion involving all workshop attendees.

Virtual attendance will be available on Zoom (link will be provided closer to the event), and recordings of the workshop will be made available afterwards. Times listed are Eastern Daylight Time. Contact cl@cmu.edu with comments and inquiries.

9:00   Session 1: Theory Validation

Topics	Formal theory evaluation methods, future architecture developments
Talk	Joseph Houpt and Othalia Larue - Using systems factorial technology for global model analysis of ACT-R's core architectural assumptions
Panel	Alex Hough, Ion Juvina, Christian Lebiere, David Peebles, Rob Thomson

10:15 Break

10:30 Session 2: Alternative Theories

Topics	AI theories of cognition, criteria for evaluation of unified theories of cognition
Talk	Mark Orr – Centaur: a foundation model of human cognition
Panel	John Anderson, Kevin Gluck, Peter Pirolli, Frank Ritter, Andrea Stocco

11:45 Lunch

1:00   Session 3: Hybrid Theories

Topics	Neuro-symbolic architectures, integrated cognitive systems
Talk	Christian Lebiere - Integrating cognitive architectures and generative models
Panel	Chris Dancy, Mary Kelly, Catherine Sibert, Robert West

2:15   Break

2:30   Session 4: Future of ACT-R

Topics	Software implementations, model applications, community governance
Talk	Andrea Stocco – Toward an open-source ecosystem for ACT-R
Panel	Dan Bothell, Mike Byrne, Drew Cranford, Chris Myers, Nele Russwinkel, Dario Salvucci, Hedderik van Rijn

3:45   Break

4:00   Open Discussion