

*Call for Papers*

# Integrated Intelligence Special Track

July 22–26, 2007 Vancouver, British Columbia

*Sponsored by the American Association for Artificial Intelligence*

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To solve complex, real-world problems, AI systems often must integrate component technologies, such as planning, reasoning, language, dialogue, perception, goal-driven action, and learning. Prototypical examples of such integrated systems include software agents, autonomous robots, intelligent tutoring systems, and virtual characters. The Integrated Intelligence track welcomes submissions on issues that arise in the design and construction of such systems.

Papers submitted to this track should highlight synergistic effects of integrating components from distinct areas of AI to achieve intelligent behavior. They should articulate the innovative mechanisms used to combine multiple components and should demonstrate the synergy achieved through this integration. Topics may range from small-scale integrations of two components to large-scale efforts that support robust autonomous agents. Projects that focus on individual component technologies are not suitable for this track. Relevant topics include:

- « Autonomous robot systems
- « Autonomous software agents
- « Cognitive architectures
- « Intelligent tutoring systems
- « Intelligent user interfaces
- « Multimodal communication
- « Multisensory fusion
- « Robot architectures
- « Virtual characters

Papers that include clear claims about the benefits of integration and supporting evidence will receive preference. Acceptable forms of evidence include theoretical analyses, experimental evaluation, matches to human behavior, and demonstrations of new functionality, provided they examine the synergistic effects of integrating two or more component abilities.

## Submissions and Dates

Authors submitting papers to this track should follow the instructions in the general call for technical conference papers. Qualified referees drawn from a special track committee will review papers, with final selections determined by the track co-chairs in conjunction with the AAAI-07 co-chairs. Submissions that are deemed not relevant to this track may, at the discretion of the chairs, be considered for review in the general technical track.

Papers must be received by February 27, 2007. Decisions on the acceptance of papers will be made by March 29, 2007. Authors of accepted papers will be required to transfer copyright.

Reid Simmons (Carnegie Mellon University), Cochair  
Pat Langley (Arizona State University), Cochair



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