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# Innovative Concepts for Agent-Based Systems

First International Workshop on Radical Agent Concepts  
WRAC 2002  
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# Preface

This collection represents the proceedings of the 1st GSFC/JPL Workshop on Radical Agent Concepts (WRAC), which was held on 16–18 January, 2002 at the Science Applications International Corporation (SAIC) Conference Center in McLean, VA, USA.

Over the past few years, agent technology has emerged as a powerful force in computing. Agent technology may well form the foundation for the next generation of computing systems. New and innovative agent concepts and techniques may bring further developments to this exploding area of research. Such work is often strongly inspired by theoretical or empirical studies of human behavior, social intelligence, psychology, arts, biology, computer science and philosophy.

This workshop aimed at bringing together, in an interdisciplinary event, original thinkers, practitioners and academics with an interest in radical (very innovative) concepts for agent-based systems. The workshop provided a forum to present the latest research findings in many aspects of agent technology. The organizers welcomed participation by those working in agent architectures, agent communities, agent communications, agent modeling, agent applications and other agent-related areas. We were particularly seeking papers on novel and innovative ideas, pushing the envelope of current agent technology. Contributions without a prototype or working system, i.e., purely conceptual contributions, were welcomed, and "out-of-the-box" thinkers were especially encouraged to participate.

The workshop was structured so as to allow the participants adequate time for discussion and interaction, to exchange ideas and reflect on the motivations, scientific grounds and practical consequences of the concepts presented.

We would like to extend our thanks to NASA Goddard Code 588, JPL and SAIC for the support they provided to this endeavor.

We hope you enjoy the fruits of the first WRAC.

April 2003

Walt Truszkowski

## Organizing Committee

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