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Nota di contenuto	Invited Presentation -- A Personalizable Agent for Semantic Taxonomy-Based Web Search -- Adaptation and Learning -- AlphaWolf: Social Learning, Emotion and Development in Autonomous Virtual Agents -- Control and Behavior of a Massive Multi-agent System -- Developing Agents Populations with Ethogenetics -- Distributed Coordination of Resources via Wasp-Like Agents -- Homo Egualis Reinforcement Learning Agents for Load Balancing -- Experimental Swarm Design -- Learning in the Broker Agent -- Agent-Based Software Engineering -- The CoABS Grid -- Agent Based Approach to Service Description and Composition -- Intelligent Software Agents Technology at the Air Force

Research Laboratory -- Testing and Monitoring Intelligent Agents -- Wireless Agents in Ad Hoc Networks -- Towards Complex Team Behavior in Multi-agent Systems Using a Commercial Agent Platform -- Creating Context-Aware Software Agents -- Agent Architectures -- An Evaluation of Philosophical Agent Architectures for Mission Robustness -- Considering Hierarchical Hybrid Systems for Intelligent Animated Agents -- Reasonable Machines: Analogical Reasoning in Autonomous Agent Design -- Seven Days in the Life of a Robotic Agent -- Communication and Coordination -- In Search of Simple and Responsible Agents -- Exploiting Reusable Knowledge to Enhance Multi-agents Capabilities: Explorations with Data Model and Glossary Repositories -- Communication and Coordination Support for Mobile, Transient and Distributed Agent Applications -- Where Should Complexity Go? Cooperation in Complex Agents with Minimal Communication -- Ontology Negotiation: How Agents Can Really Get to Know Each Other -- An Extended Bayesian Belief Network Model of Multi-agent Systems for Supply Chain Managements -- Agent Communication in DAML World -- Semantic Resolution for E-commerce -- An Approach to Knowledge Exchange and Sharing between Agents -- Learning Communication for Multi-agent Systems -- Innovative Applications -- Biological Analogs and Emergent Intelligence for Control of Stratospheric Balloon Constellations -- Cooperative Agents and the Search for Extraterrestrial Life -- Agents Making Sense of the Semantic Web -- Generic Agent Architecture for Embedded Intelligent Systems -- Poster Presentations -- Agents with Several Bodies -- Automatic Code Writing Agent -- The Agentcities Initiative: Connecting Agents Across the World -- Use of Ontology for Virtual Humans -- Person Perception for Social Agents: Research on Outfitting Social Agents with a Facial Trait Perception System -- Adapting Agent Infrastructure for Models of Human Agency -- Panel Reports -- Evolution of Agent Architectures -- Panel Discussion on Ontologies.

Sommario/riassunto

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 technologyhas emerged as a powerful force in computing. Agent technology may well form the foundation for the next gen- ation 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. Thisworkshopaimedatbringingtogether,inaninterdisciplinaryevent,or- inal thinkers, practitioners and academics with an interest in radical (very - novative) concepts for agent-based systems. The workshop provided a forum to present the latest research?ndings in many aspects of agent technology. The - ganizers 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 - novative 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 re?ect on the motivations, scienti?c grounds and practical consequences of the concepts presented.