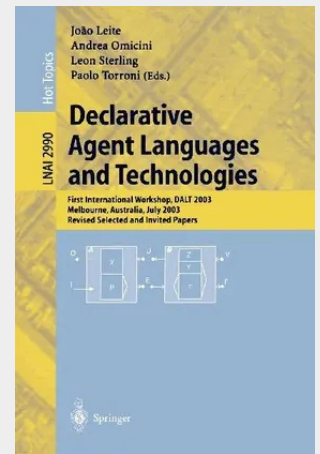


Declarative Agent Languages and Technologies

First International Workshop, DALT 2003, Melbourne, Australia, July 15, 2003, Revised Selected and Invited Papers

Agent metaphors and technologies are increasingly adopted to harness and govern the complexity of today's systems. As a consequence, the growing complexity of agent systems calls for models and technologies that promote system predictability and enable feature discovery and verification. Formal methods and declarative technologies have recently attracted a growing interest as a means to address such issues. The aim of the DALT 2003 workshop was two-fold. On the one hand, we wanted to foster a discussion forum to export such techniques into the broader community of agent researchers and practitioners. On the other hand, we wanted to bring in the issues of real-world, complex, and possibly large-scale agent system design in the perspective of formal methods and declarative technologies. Thanks to the very high quality of our program committee, we managed to put together a rich program, including three technical sessions and two panel sessions: The Use of Declarative Programming for Agent-Oriented Software Engineering, moderated by Leon Sterling and Andrea Omicini, and Declarative and Logic-Based Technology for Agent Reasoning and Interactions, organized and moderated by Rafael Bordini and Wiebe van der Hoek, with the participation of five invited panelists. This book contains the revised and extended versions of the papers presented at the workshop, as well as three invited contributions by leading researchers of the field. It is composed of three parts: (i) software engineering and multi-agent system prototyping, (ii) agent reasoning, BDI logics and extensions, and (iii) social aspects of multi-agent systems.

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