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Yves Demazeau · Keith S. Decker
Javier Bajo Pérez · Fernando De la Prieta (Eds.)

Advances in Practical Applications of Agents, Multi-Agent Systems, and Sustainability

The PAAMS Collection

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Preface

Research on Agents and Multi-Agent Systems has matured during the last decade and many effective applications of this technology are now deployed. An international forum to present and discuss the latest scientific developments and their effective applications, to assess the impact of the approach, and to facilitate technology transfer, has become a necessity and has been created a few years ago.

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems, is the international yearly tribune to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics, and practitioners together to exchange their experience in the development and deployment of agents and multi-agent systems.

This volume presents the papers that were accepted for the 2015 edition of PAAMS. These articles report on the application and validation of agent-based models, methods, and technologies in a number of key application areas, including: Agents and the Energy Grid, Agents and the Traffic Grid, Affective Computing and Agent Development, Ambient and Contextual Agents, Social Simulation and Social Networks, and Other Agent-based Applications. Each paper submitted to PAAMS went through a stringent peer review by three members of the international committee composed of 111 internationally renowned researchers from 26 countries. From the 48 submissions received, 10 were selected for full presentation at the conference; another 9 papers were accepted as short presentations. In addition, a demonstration track featuring innovative and emergent applications of agent and multi-agent systems and technologies in real-world domains was organized. Seventeen demonstrations were shown, and this volume contains a description of each of them.

We would like to thank all the contributing authors, the members of the Program Committee, the sponsors (IEEE SMC Spain, IBM, AEPIA, AFIA, AAAI, APPIA, ARIA, ATIA, BNVKI, SADIO, SBC, GI, University of Salamanca, and CNRS), and the Organizing Committee for their hard and highly valuable work. Their work has helped to contribute to the success of the PAAMS'15 event. Thanks for your help – PAAMS'15 would not exist without your contribution.

June 2015

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