

# Preface

AAMAS is the leading scientific conference for research in autonomous agents and multiagent systems, which is annually organized by the non-profit organization, the International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS). The AAMAS conference series was initiated in 2002 by merging three highly respected meetings: the International Conference on Multi-Agent Systems (ICMAS); the International Workshop on Agent Theories, Architectures, and Languages (ATAL); and the International Conference on Autonomous Agents (AA).

Besides the main program, AAMAS hosts a number of workshops, which aim at stimulating and facilitating discussion, interaction, and comparison of approaches, methods, and ideas related to specific topics, both theoretical and applied, in the general area of Autonomous Agents and Multiagent Systems. The AAMAS workshops provide an informal setting where participants have the opportunity to discuss specific technical topics in an atmosphere that fosters the active exchange of ideas.

This book compiles the most visionary papers of the AAMAS 2017 workshops. In total, AAMAS 2017 ran 18 workshops. To select the most visionary papers, the organizers of each workshop were asked to nominate up to two papers from their workshop and send those papers, along with the reviews they received during their workshop's review process, to the AAMAS 2017 workshop co-chairs. The AAMAS 2017 workshop co-chairs then studied each paper carefully, in order to assess its quality and whether it was suitable to be selected for this book. Notice that not all workshops were able to contribute to this volume. The result is a compilation of 15 papers selected from 10 workshops, which we list below.

- The 22nd International Workshop on Coordination, Organization, Institutions, and Norms in Agent Systems (COIN 2017)
- The 4th International Workshop on Agent-Mediated Electronic Commerce and Trading Agents Design and Analysis (AMEC/TADA 2017)
- The 18th International Workshop on Multi-Agent-Based Simulation (MABS 2017)
- The 8th International Workshop on Optimisation in Multiagent Systems (OptMAS 2017)
- The 10th International Workshop on Agents Applied in Health Care (A2HC 2017)
- The 19th International Workshop on Trust in Agent Societies (Trust 2017)
- The 17th International Workshop on Adaptive Learning Agents (ALA 2017)
- The 1st International Workshop on Teams in Multi-Agent Systems (TEAMAS 2017)
- The 10th International Workshop on Agent-Based Complex Automated Negotiations (ACAN 2017)
- The 4th International Workshop on Exploring Beyond the Worst Case in Computational Social Choice (EXPLORE 2017)

We note that a similar process was carried out to select the best papers of the AAMAS 2017 workshops. While visionary papers are papers with novel ideas that propose a change in the way research is currently carried out, best papers follow the style of more traditional papers. The selected best papers may be found in the Springer book LNCS 10642.

The AAMAS 2017 workshops are the second AAMAS workshop series to publish their (selected) papers in the form of a collective book. We hope that this book can better disseminate the most notable results of these workshops and encourage authors to submit top-quality research work to the AAMAS workshops.

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