

Autonomous Agents and Multi-Agent Systems

~ Agents and Multiagent Systems for Social Good ~ Call for Papers

About this Issue

Along with the rapid technical advances in Artificial Intelligence (AI) is the discussion on the promise and concerns of future application of AI. While grappling with the ethical, safety, and legal concerns, we must not ignore the benefit AI can bring to society. As a key research field in AI, Agents and Multiagent systems (MAS) have shown their potential of being a major force for social good through research advances that have led in recent years to several key applications being successfully deployed for addressing societal challenges with significant impact.

This special issue aims to foster Agents and MAS research for Social Good, by collecting research contributions that lead to benefits to concrete societal problems. Research on Agents and MAS for Social Good face many technical and practical challenges. For example, data collection may be difficult and may require innovative methods and validations, for instance to address large scale data gathering in the field, eliminate bias and ensure fairness; problem modeling is a time-intensive activity that requires extensive discussions with domain experts and needs to balance a variety of tradeoffs in decision making; the social impact is only realized through time-consuming field studies that typically compare a baseline with the application of novel algorithms in the real world. The goal of this special issue is to highlight these technical challenges and opportunities and to showcase the social benefits of Agents and MAS research.

Submitted papers must specify a concrete societal problem of interest. The submitted papers will be evaluated holistically in terms of the overall impact and their contributions to the multiple dimensions listed above. We encourage papers that include evaluation results based on real-world data and case studies. Collaboration with the public and social sector partners will be appreciated. Submissions to the special issue may describe contributions with a focus on exemplary applications or advances in the methods. Papers will be reviewed according to the usual standards of JAAMAS. Prospective authors with questions about the intended scope are welcome to contact the special-issue co-editors.

Societal problems of interest include but are not limited to:

Urban Computing

- Smart Transportation
- Big Data Driven Urban Planning
- Urban Energy

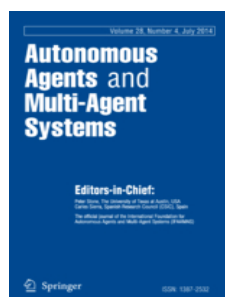
Healthcare

- Smart Elderly Care
- Virtual Healthcare Assistants
- Effective Disease Prevention Information Dissemination

Public Welfare and Social Justice

- Preventing Adverse Police-Public Interactions
- Child and Women Empowerment
- Poverty Alleviation

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- Ecological Modeling
- Climate Change

Security

- Physical Infrastructure Security
- Cyber Security
- International Relations

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Submissions and Reviews Procedures

Special Issues are handled in the normal way via the online Editorial Manager system found at <https://agnt.edmgr.com>. Please choose the article type “S.I. : **Agents and Multiagent Systems for Social Good.**” Special Issue articles should fulfill all the standard requirements of any JAAMAS article. Authors should note that the same criteria apply to articles in Special Issues as to regular articles. *Special Issue articles must not consist of overviews of the authors' previously published work, e.g. peer-reviewed articles, book chapters, official reports, etc.*

All papers will undergo the same rigorous AGNT review process. Please refer to the JAMAAS website for detailed instructions on paper submission: <http://www.springer.com/computer/ai/journal/10458>

Important Dates

- **Deadline for submissions:** 10 October 2018