

SS5: 5th International Workshop on Democracy and AI (ICRES-DemocrAI 2024)

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Description

Online crowd-based platforms and large language models are currently driving the creation of new forms of democracy. AI-assisted democracy is a promising idea that pledges to take full advantage of AI's capabilities in supporting the collaborative activities of humans, in gathering, sharing, and coming out with solutions to wicked problems that humanity is currently facing. However, it is also true that some AI-based support functions such as personalization have been causes of social division, e.g., filter bubble and echo chamber. To create new forms of AI-assisted democracy, socially aligned AI that can support mutual understanding without social division is required. In this respect, ethical and cognitive aspects based on actual instances should be incorporated to the design of interaction between agents and society.

This workshop is the 5th in a series that has been held at IJCAI 2023, PRICAI 2023, etc. It investigates different pathways to democracy using agent-based methodologies and tools, relevant formal theories, and ethical, legal, and socio-psychological insights on democracy and its future. The topics of the workshop could be summarized as follows.

- Socially Aligned Artificial Intelligence for Democracy, Consensus, and Co-creation
- Technologies and Platforms for Group Decision-Making
- Formal Theories of Decision-Making, such as Formal Argumentation, Game Theory, Social Choice Theory, and Mechanism Design
- Multiagent Systems, Distributed Artificial Intelligence, and Distributed Ledgers
- Wisdom of the Crowds, Collective Intelligence, and Superminds
- Liquid, Digital, Cyber, Hyper, and Augmented Forms of Democracy
- Social Choice Theory and Computational Social Choice
- Social Science, Sociology, and Social Psychology
- Ethical, Legal, and Societal Issues in Collective Decision-Making
- Crowdfunding, Crowdsourcing, and Human-Based Computation

- The Sustainable Development Goals or Global Goals and Artificial Intelligence

Researchers in various communities of AI, autonomous agents, multiagent systems as well as sociology and social psychology, are actively working on these issues. This workshop is highly relevant to ethical, legal, and societal issues in AI as the main focuses of ICRES 2024. It aims to bring together researchers and practitioners from these communities to learn about each other's approaches to AI-empowered democracy, encourage the cross-disciplinary exchange of ideas, and foster long-term research collaborations and engagement in implementing real-world applications