

12-13 March, 2022

SMCA'2022 aims to bring together researchers, leading computer scientists, mathematicians and economists to share knowledge, present their novel ideas and discuss the future development of strategic or incentives modeling in computing applications. This conference also strives to provide an opportunity for young researchers, academicians, and practitioners with multidisciplinary interests to meet and interact with members across a range of disciplines.

Theme

Advances in the Internet and allied technologies make it possible for geographically dispersed entities like mobile devices, sensors, IoT devices and software agents to interact. These entities offer numerous services for entities like end-users, organizations and businesses at the Internet edge. In this new computing paradigm, the entities are autonomous decision-makers (likely self-interested) who work together for their owners in a centralized or decentralized fashion to achieve their individual goals. Since such goals may not be socially desirable, it is important to model and analyze the interactions of multiple self-interested entities and provide design solutions to achieve overall system optima.

Topics of Interest

SMCA'2022 aims to examine some recent developments in the interaction between emerging computer technologies, game theory, and economics. The focus will be on computer applications and technologies that heavily use game-theoretic and economics models. This conference will focus on finding relevant applications of game theory—not exclusively—on the following topics:

BLOCKCHAIN

Mining Management
Token Economics
Contracts Management
Blockchain & Decentralization
Blockchain Scalability
Blockchain Consensus
Blockchain Security
Blockchain Interoperability
Blockchain Governance
Blockchain & Privacy

INTELLIGENT COMPUTING

Distributed AI
Federated Learning
Online Learning
Collaborative Learning
Peer-to-Peer Distributed learning
Adversarial Machine Learning
Social Robot
Industry 4.0
Machine Learning & Mechanism Design

DISTRIBUTED COMPUTING

Distributed Systems
Peer-to-Peer Computing
Cloud Computing
Grid Computing
Fog Computing
Ubiquitous Computing
Utility Computing
Internet of Things

SOCIAL COMPUTING

Socially-aware Computing
Crowdsourcing
Recommender System
Algorithmic Social Science
Network Games
Social Network Analysis

COMPUTATIONAL ECONOMICS

Sharing Economy
Networks Economics
Algorithmic Game Theory
Computational Finance
Computational Advertisement
Computational Equilibrium Modeling

Important Dates

Submission Deadline
22 December, 2021
Acceptance Notification
20 February, 2022

Proceedings

SMCA'2022 proceedings shall be submitted for online publication as a separate volume of CEUR Workshop Proceedings (ISSN 1613-0073, CEUR-WS.org). CEUR-WS Conference Proceedings have received Scopus coverage.

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Special Issue

Extended versions of the papers accepted and presented at SMCA'2022 will be invited for publication in a Special Issue of the International Game Theory Review dedicated to the conference on Strategic Models in Computing Applications (SMCA'2022).

Organizer

Indian Institute of Information Technology Dharwad

12-13 March, 2022

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