Call for Contributions

Submission:
1. Inform the Chairs: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=INTELLI+2019+Special
Please select Track Preference as **SkoopBC**

Special track

SkoopBC: Cooperative Computing and Enterprise Blockchains

Chair and Coordinator
Dr. Cyrus F Nourani, Research Professor, AKWMTS & TU and Berlin, Germany
& Apple Academic Press Innovations Management Series Editor
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along with

INTELLI 2019: The Eighth International Conference on Intelligent Systems and Applications
June 30, 2019 to July 04, 2019 - Rome, Italy
https://www.iaria.org/conferences2019/INTELLI19.html

Due to the heterogeneity of multi-agent systems, a single approach focusing on all of the issues is often not enough. This volume's goals are to present new directions of research into the coordination and control of multi-agent systems, by bringing together researchers working in all areas. Intelligent agents possess several important computational roles. These include the ability to communicate, cooperate, and collaborate, but all these must be coordinated. This volume will present an overview of the abilities for coordination and cooperation. Self-interest is a key characteristic of multi-agent systems. Agents pursue their individual objectives. These objectives, while consistent but can be completely contradicting, often require cooperation between agents and, in particular, often cannot be ensured by individual agents. As a consequence, actions and behaviors need to be coordinated to satisfy the agents' objectives; however they also have to be controlled to meet the encompassing goal system's specifications.

Cooperative games can represent interactions between multiple agents in many real-life situations. Combining model learning techniques with coordination, the processes tend to become more consistent for effective cooperative behavior. How data is designed stored and managed is rapidly changing. The Internet of Things (IoT), Artificial Intelligence (AI), and analytics are driving the trends. Traditional databases, designed pre-Internet, are unable to handle Big Data, types, and volume created. The amount of data and the scope of use of that data in traditional systems are very limited, greatly reducing viability in the world of unstructured Big Data. New infrastructures for storing data, e.g., cloud storage, or create complicated scenarios.

Besides technical limitations, there are privacy risks when trusting a service with information. For storing data in this rapidly developing climate, it's imperative that more resilient and efficient databases are created. They need to be highly secure and adept at catering to the needs of applications in the fields of IoT and AI. To these ends, I believe that blockchain technology is an ideal solution. Instead of being run by an entity such as Amazon or Google, blockchain's integrity is assured by nodes in the network that sync copies of the database.

Topics include, but not limited to:

- Formal methods for cooperative computing
- Agent coordination and cooperation cognitive loops

- Argumentation abilities
- Social dependencies and roles
- Interaction between rational decision makers in general, and coordination problems in particular
- Blockchain as the new trend for cooperative distributed computing.
- Digital assess and the value chains on IOT
- Business networks and digital asset transactions: topic areas
- Crypto stake on protocols
- Digital signatures
- Blockchain protocols and transaction processing
- Distributed ledgers
- Digital assets: digital identity, and cryptocurrency
- Shared ledgers and digital IDs
- Decentralizing digital assets and distributed AI
- Interbank Transactions
- Smart data models for blockchain databases

Important Datelines
- Inform the Chair (see Contacts below): as soon as you decided to contribute
Submission: May 4, 2019
Notification: May 24 2019
Registration: June 3, 2019
Camera-ready: June 3, 2019

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be invited for publication as chapters in a volume on Apple Academic Press: http://www.appleacademicpress.com/innovations-on-cooperative-computing-and-enterprise-blockchains-/715
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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