



Organizing Committee

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Important Dates

Submission of Full length Papers: Aug 10, 2020

Paper notifications: Sep 20, 2020

Submission of Camera-ready format: Sep 30, 2020

Conference Date: Feb 25-27, 2021

Registration

Kindly refer the main conference site for details:

<https://www.ifis.uni-luebeck.de/~groppe/isic/2021#Registration>

Aim and Scope

Artificial Intelligence & Internet of Things (IoT) are the latest trending technology making society-changing in many fields especially in industries like Manufacturing, Automation, Healthcare, Energy, Transport, Defence, Space, Data Mining, Elder Care etc. AI & IoT, are opening a wide set of new opportunities, both for novel services/applications and increased efficiency/scalability. These opportunities include locally sharing information, collaborating, generating/consuming a huge amount of data and learning from a massive amount of data in real time to quickly identify newly emerging unknown patterns. Indeed, distributed big data analytics, modern Machine Learning (ML) technology, Artificial Intelligence (AI), real-time data collection and processing, scalable and distributed security solutions such as blockchain, and distributed secure data processing, may play a significant role.

However, successful decision-making needs to combine the best qualities of both human and digital knowledge. To do so, it is capital to structure any type of relevant and reliable knowledge and incorporate it as part of decision analytics. Indeed, there is an increasing recognition of utilizing knowledge whenever available or can be created purposefully. This includes contextual and organizational information that analytics by itself does not provide.



Call for Papers

This Special Issue aims to demonstrate the indispensable role of business data and methodological know-how in helping decision-making and how to use and exploit the prior knowledge to enhance data analytic for autonomous decision-making. We hence encourage original paper submissions, which have not been published or submitted for publication elsewhere, from both academia and industry presenting novel research addressing the aforementioned challenges. We are seeking both conceptual and empirical papers offering new insights and contribution to the development of data analytic algorithms and systems for autonomous decision-making, which focus on the following topics (but are not limited to) which demonstrate the role of exploiting the knowledge to enhance data analytics:

- Enhancing the capability in handling uncertainty;
- Enhancing transparency, interpretability and explainability;
- Reducing the complexity of model architecture in time and space;
- Enhancing the capability to avoid social discrimination and unfair treatment;
- Enhancing automated decision making capability and performance;
- Enhancing reliability and integrity of data analytics.

Submission Guidelines

Submissions should

- (i) conform strictly to the Instructions for Authors available on the conference website.
- (ii) be in English with the following page length (pages of around 400 words each):
 - * Full papers (12-16 pages including references)
 - * Short papers (6-8 pages including references)
- (iii) be either in PDF or in MS-Word, formatted in the style of the Springer Publications format for Communications in Computer and Information Science (CCIS).

For details on the CCIS style, see:

<https://www.springer.com/gp/authors-editors/conference-proceedings/conference-proceedings-guidelines>.

For any queries related to this special session, you can contact session chairs