



# CALL FOR PAPERS

**SI:** Computational Models for decision making in Knowledge Based Organization (CMKBO)

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**Guest Editors:**

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Knowledge based organizations (KBO) are those organizations that are knowledge intensive and focuses on process (knowledge activities), purpose (mission and strategy) and perspective (decisions and actions). With shifting modern business needs and stakeholder demands, it is domineering to drive the relation among the management of the KBO and the use of Information Technology (IT). A technological infrastructure is important for KBO to support the knowledge extraction, transfer and its subsequent use and application in an organization. The incorporation of IT in KBO enables systematic methods for eliciting, storing, retrieving and maintaining of data. This data is essential for the smooth and efficient working of the different components of an organization such as human resource, product, services and other organizational activities.

KBO are looking into the field of decision sciences, business intelligence (BI), and establishment of the knowledge based system (KBS) within IT infrastructure. The common theme of the KBS is to represent knowledge explicitly via tools formed on the basis of tried and tested ontologies and rules rather than through newly generated codes specific to the domain of a particular KBO. Such knowledge contained in KBS forms the basis for intelligent decision making. However such intelligent decision making is not possible without employing effective computational models. A computational model of decision making is an increasingly important area of research which aims to understand and emulate the way humans deal with decision making. Much of the research is in developing formal models that can be used to support individuals and organizations in decision making.

This special issue tries to be a meeting point between researchers from the academia and industry, to exchange their innovative ideas, theories and to develop new algorithms regarding decision making in KBO. This new focus will be marked by this special issue covering latest and emergent topics. Potential topics include, but are not limited to:

**List of Topics: -**

- Computational modeling of learning and decision making
- Evaluating computational models of decision making
- Computational models for multi-level decision making
- Data driven computational models of decision making
- Computational modeling of human behavior
- Decision making under uncertainty
- Incremental learning algorithms of decision making
- Adaptive Incremental Learning in Neural Networks for intelligent decision making
- Incremental knowledge acquisition for intelligent decision making

- Validation of computational models of decision making using empirical data
- Computational models of organization learning and decision making
- Computational models for group decision making

**Important Dates:**

- Submission deadline: 30<sup>th</sup> April 2018
- Author notification: 30<sup>th</sup> June 2018
- Revised papers 30<sup>th</sup> July 2018
- Final notification: 30<sup>th</sup> August 2018
- Publication: As per the policy of journal

**Submission guidelines:**

For further query or inquiries, please contact the corresponding Guest Editor Sajid Anwar (see contact details below).

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