

Call for papers

Special issue on “Granular computing in decision making”

Guest editors: Jindong Qin, Xinwang Liu, Luis Martinez

Purpose:

Granular Computing plays a pivotal role in acquiring, representing, processing, and communicating knowledge at a suitable level of abstraction. In the last decade, we have witnessed a rapidly growing interest in Granular Computing viewed as a new asset of studies of human-centric decision making problem. In the setting of decision-making pursuits, they support a general sequence of processing can be depicted as: data/experimental evidence, information granules, constructs of decision-making. At the same time, we also observed that studies on Granular Computing are typically carried out in some classical uncertainty areas, such as interval analysis, fuzzy sets, rough sets, shadow sets and so on. The studies in general decision making with the aid of Granular Computing are very limited. It is time to establish new theories, methodologies and tools of Granular Computing in decision making.

As an important fundamental theory in Granular Computing, the principle of justifiable granularity, which serves as a key design vehicle facilitating a formation of information granules completed on a basis of available experimental evidence. Meanwhile, some design scenarios supporting a formation of hierarchies of information granules of higher type and higher order are also worth studying in big data environment. This special issue aims to offer a systematic overview of this new research field and provide innovative approaches, models and systems to effectively support decision making in data-driven and knowledge-oriented environments. It is anticipated that this special issue will help foster future studies on Granular Computing and decision making towards forming their own theories and models.

Scope and Topics:

The main topics of this special issue include, but are not limited to, the following:

1. New models of granular decision making
2. Aggregation of information granules
3. Design mechanism of information granules
4. Simplified operations of granular computing
5. Multi granularity linguistic decision methods
6. Some extensions of optimal allocation of information granularity
7. Data-driven decision model with the aid of Granular Computing
8. Fuzzy decision making and Granular Computing
9. Decision applications in recommender systems

Time line of special issue:

Please submit a full-length paper through the Granular Computing journal online submission system and indicate it is to this special issue. Papers should be formatted by following GrC manuscript formatting guidelines. The submission procedure will be managed by the Guest Editors and strictly follow the rules of Granular Computing.

The proposed key dates are following:

Deadline of submission: [September 15, 2017](#)

1st round of review – comments to authors: [November 15, 2017](#)

Revision deadline: [January 15, 2018](#)

Submission of final version: [April 15, 2018](#)

For information about the journal of Granular Computing, visit the page:
<https://www.editorialmanager.com/grco/default.aspx>

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