



Journal of Universal Computer Science

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Special Issue on

“New Trends in Logic Reasoning Approaches for Rational Decision Making”

CALL FOR PAPERS

Aim and Scope

Decision making is the crucial step in many real world applications such as organization management, financial planning, products evaluation, recommendation and cyber-physical system applications. Various methods and approaches have been explored from different viewpoints. Rational decision making becomes more and more important especially in the digital marketing industry nowadays because it leverages objective data, logic, and analysis instead of subjectivity and intuition to help solve a problem or achieve a goal. Accordingly rational decision making methods with the theoretical foundations to address the accuracy, reliability and precision of decision making have been hot research topic owing to their importance and effectiveness.

Essentially, the process of decision making can be interpreted as a reasoning process from provided information or domain knowledge to some conclusions. Reasoning provides a formal way and fundamental mechanism for problem representation and decision-making process. Logic serves as the foundations of reasoning mechanism, and it builds a bridge between theory and application. Therefore, this special issue focuses on the state-of-the-art research results on decision making from the viewpoint of logic reasoning based methods and techniques in its broadest sense, and aims at providing an opportunity for collecting some excellent work on the above common research areas including compiling the latest research, development and practical experiences as well as up-to-date issues; reviewing accomplishments, assessing future directions and challenges in the field.

Accordingly, this special issue welcomes contributions within one of the following research topics, which can be theoretical formalisms, methodologies; algorithms investigation or practical applications:

- Automated reasoning approaches for decision making
- Approximate reasoning approaches for decision making
- Logical specification of decision making problems
- Logical theories for decision making
- Applications of logic reasoning to policy making, service evaluation, system credibility verification, cyber-physical system applications, etc.

Submission Guidelines

Submitted papers should be submitted via E-mail to the guest editors, together with a cover letter, in which the authors should clearly state that the submission is for the J.UCS Special Issue on “**New Trends in Logic Reasoning Based Decision Making**”. All submitted papers will be in the English language and the length of a paper may not exceed 20 pages. The papers can only be accepted for publication after a rigorous review process. Each paper must be reviewed by at least 3 reviewers. The papers should follow the format of the J.UCS journal. For more detailed submission information, please refer to the journal homepage at: http://www.jucs.org/ujs/jucs/info/special_issues/special_guidelines.html

Important Dates

- Initial paper submission deadline: March 31, 2019
- 1st round review notification: June 30, 2019
- 1st revision deadline: August 31, 2019
- Final review notification: September 30, 2019
- Submission of final papers w.r.t. guidelines: October 31, 2019
- Submission of the special issue to the publisher: November 15, 2019

Submission plan

To aid planning and organization, please e-mail to Guest Editors a short note of your intention to submit a paper as early as possible by 15th December 2018 including the following items:

- author information
- a tentative title
- abstract, and
- an estimated number of pages

Special Issue Guest Editors:

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