

Special Section on Knowledge-Based Software Engineering

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The Institute of Electronics, Information and Communication Engineering (IEICE) Transactions on Information and Systems announces a forthcoming special section on “Knowledge-Based Software Engineering” to be published in May 2022. The objective of this special section is to publish and overview recent progress in the interdisciplinary area of Artificial Intelligence and Software Engineering. But, the topics are not limited to this domain. The related interests are highly welcomed. All submitted papers are subjected to the same review processes as those papers accepted for publication in the regular issues.

1. Topics of interests include, but are not limited to:

- Knowledge technologies for semantic web -Ontology engineering -Ontologies and patterns in UML modeling
- Knowledge technologies for service-oriented systems (SOA) -Internet of services and Internet of things (IoT)
- Architecture of knowledge-based systems, including intelligent agents and softbots
- Knowledge-based requirements engineering, domain analysis and modeling
- Knowledge engineering for process management and project management
- Intelligent user interfaces and human-machine interaction
- Methodology and tools for knowledge discovery and data mining -Automating software design and synthesis
- Automating composition of components and services, methods to predict the properties of composites
- Knowledge-based methods and tools for testing, verification and validation, maintenance and evolution
- Decision support methods for software engineering
- Knowledge management for business processes, workflows and enterprise modeling
- Program understanding, programming knowledge, modelling programs and programmers
- Knowledge-based methods and tools for software engineering education
- Knowledge-based methods for software metrics and testing
- Application of artificial intelligence -Application of big data -Application of IoT
- Application software for business -Self-adaptive systems

2. Guideline for paper submission:

- a. In preparing the manuscript, authors should be subjected to the Information for Authors on IEICE Transactions, which describes the standard format of papers. Information for Authors is available through WWW page http://www.ieice.org/eng/shiori/mokuji_iss.html.
- b. Submit a paper using the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx by May. 10, 2021 Japan Standard Time. We will not receive any papers after the deadline. Authors should choose the “[Special-ED] Knowledge-Based Software Engineering” as a “Type of Issue (Section) /Transactions” on the online screen. Do not choose “[Regular-ED] Information and Systems” or other special sections.
- c. At electric submission via the IEICE Web site, authors should agree “Copyright Transfer and Page Charge Agreement.”
- d. It is recommended that the paper does not exceed 8 printed pages. If it exceeds this limit, extra fee will be charged.
- e. All authors, including authors of invited papers, are requested to pay for the page charges that cover a part of the publication cost. The page charges help cover the substantial cost of editing and publishing the IEICE Transactions. Peer review of your manuscript is provided as a service.
- f. Please be advised that in the case that a large number of papers are accepted for publications, a portion of these papers may be published in another issue of the journal.

Open Access Publishing: Since January 2017, all papers of the IEICE Transactions on Information and Systems stored in J-STAGE that include all papers published from January 2017 have been opened to all reader in the world through J-STAGE. Open Access Option for many transactions in IEICE will not be applied to papers in January 2020 issue and following issues of the IEICE Transactions on Information and Systems. (Open Access Publishing will be continued after January 2020.). For details on Open Access Publishing and Open Access Options, please carefully refer to “The Information for Authors” (http://www.ieice.org/eng/shiori/mokuji_iss.html). Note that these rules may be changed without notice.

3. Important Dates:

Papers submission deadline (FIRM DEADLINE): 23:59:59, May 10, 2021 Japan Standard Time (JST or UTC+9)

4. Contact: Assoc. Prof. Shinpei Ogata, Academic Assembly School of Science and Technology Institute of Engineering, Shinshu University, Japan, E-mail: ogata@cs.shinshu-u.ac.jp

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6. IMPORTANT NOTICE

*Upon accepted for publication, all authors, including authors of invited papers, should pay the page charges covering partial cost of publication around January 2022. If payment is not completed by 15 February, 2022 your manuscript will be handled as rejection.

*The standard period of 60 days between the notification (of conditional accept) and the second submission can be shortened according as the review schedule.

*At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are an exception. We recommend authors unaffiliated with IEICE to apply for the membership (<http://www.ieice.org/eng/join/member.html>).