

## 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 September 2026. 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 architecture(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 [https://www.ieice.org/eng/shiori/mokuji\\_iss.html](https://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](https://review.ieice.org/regist/regist_baseinfo_e.aspx) by September 2, 2025 Japan Standard Time. We will not receive any papers after the deadline. Authors should choose the “[Special-KB] Knowledge-Based Software Engineering” as a “Journal/Section” 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, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy”

d. The preferred length of the manuscript is 8 pages for a PAPER and 2 pages for a LETTER with the format determined by the IEICE Style File. 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.

### 3. Paper submission deadline

23:59:59, September 2, 2025 Japan Standard Time (UTC+9)

4. Contact: Yoshinori Tanabe, Tsurumi University. E-mail: [tanabe-y@tsurumi-u.ac.jp](mailto:tanabe-y@tsurumi-u.ac.jp)

### 5. Editorial board

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### 6. Notice

\*Upon accepted for publication, all authors, including authors of invited papers, should pay the page charges covering partial cost of publication around February 2026. If payment is not completed by 15 March, 2026 your manuscript will be handled as rejected.

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

\* If there are non-members among the authors, we recommend that the authors take this opportunity to join the IEICE. For detailed information on the IEICE Membership Application, please visit the web-page, [https://www.ieice.org/eng\\_r/join/individual\\_member.html](https://www.ieice.org/eng_r/join/individual_member.html). If all authors are non-members, the article processing charge for non-members will be applied, except for invited papers.

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\* IEICE has begun a multilingual (16 languages) translation trial of IEICE Transactions Online since April 2024. Please visit <https://globals.ieice.org>.