

Special Section on Knowledge-Based Software Engineering

The Institute of Electronics, Information and Communication Engineers (IEICE) Transactions on Information and Systems announces a forthcoming special section on "Knowledge-Based Software Engineering" to be published in **April 2010**. The objective of this special section is to publish and overview recent progress in the interdisciplinary area of Artificial Intelligence and Software Engineering. This special section will include papers based on the presentation at Joint Conference on Knowledge-Based Software Engineering 2008 and papers applied for this call for papers. All submitted papers are subjected to the same review process as those papers accepted for publication in the regular issues.

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

- Architectures for knowledge-based shells
- Architecture of knowledge-based systems, including intelligent agents and softbots
- Development processes for knowledge-based applications
- Internet-based interactive applications
- Software tools assisting the development
- Knowledge acquisition
- Empirical /evaluation studies for knowledge-based applications
- Intelligent user interfaces and human-machine interaction
- Development of user models
- Development of multi-modal interfaces
- Software life cycle of intelligent interactive systems
- Knowledge technologies for semantic web
- Ontologies and patterns in UML modeling
- Knowledge technologies for web services
- Knowledge-based requirements engineering, domain analysis and modeling
- Knowledge engineering for process management and project management
- Methodology and tools for knowledge discovery and data mining
- Automating software design and synthesis
- 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, modeling programs and programmers
- Knowledge-based methods and tools for software engineering education
- Software engineering methods for Intelligent Tutoring Systems
- Knowledge-based methods for software metrics

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/>.
- b. Submit a paper using the IEICE Web site https://review.ieice.org/regist_e.aspx by June 30, 2009. 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. Send "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration" to the following contact person by E-mail, FAX or postal mail until July 3, 2009. Please do not forget to send "Copyright Transfer and Page Charge Agreement" and "Confirmation Sheet of Manuscript Registration". We cannot start the review process without them, even if we receive the manuscript.

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- 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. Authors are entitled to 50 reprints of their published articles.
- 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. Editorial Board:

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