

# Special Issue on Knowledge-Based Software Engineering

The Institute of Electronics, Information and Communication Engineers (IEICE) Transactions on Information and Systems announces a forthcoming special issue on “Knowledge-Based Software Engineering” to be published in April 2004. The objective of this Special Issue is to publish and overview recent progress in the interdisciplinary area of Artificial Intelligence and Software Engineering. This issue will include papers based on the presentation at Joint Conference on Knowledge-Based Software Engineering 2002 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:
  - Architecture of knowledge, software and information systems including collaborative, distributed, multi-agent and multimedia systems, internet and intranet,
  - Requirements engineering, domain analysis and modeling, formal and semiformal specifications,
  - Knowledge engineering for domain modeling, system family engineering, and software product lines,
  - Intelligent user interfaces and human-machine interaction,
  - Knowledge acquisition and discovery, data mining,
  - Automating software design and synthesis,
  - Object-oriented and other programming paradigms, metaprogramming,
  - Reuse, re-engineering, reverse engineering,
  - Knowledge-based methods and tools for software engineering, including testing, verification and validation, process management, maintenance and evolution, CASE,
  - Decision support methods for software engineering,
  - Applied semiotics for knowledge-based software engineering,
  - Knowledge systems methodology, development tools and environments,
  - Practical applications and experience of software and knowledge engineering,
  - Information technology in control, design, production, logistics and management,
  - Enterprise modeling, workflow,
  - Knowledge management for business process,
  - Intelligent agents for software engineering,
  - Program understanding, programming knowledge, learning of programming, modeling programs and programmers,
  - Knowledge-based methods and tools for software engineering education,
  - Knowledge bases and software engineering for information society
  - Software engineering and knowledge engineering education, distance learning.
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 anonymous ftp service (<ftp://ieice.or.jp>) and WWW service (<http://www.ieice.or.jp> or <ftp://ftp.ieice.or.jp/pub/info-authors/eibunsi/info.txt>).
  - b. Please prepare a manuscript as a pdf file or a MS-WORD file (up to WORD 2000). Please write the E-mail address of the representative author on the cover page of the manuscript. The editorial committee will send a receipt notification to the representative author via E-mail within four days after submitting the manuscript.
  - c. Authors should submit the electronic manuscript by **June 30, 2003** to the following address:  
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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.
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  - 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.

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