



IEEE

IEEE Transactions on Systems, Man and Cybernetics
Part C – Applications and Reviews

Special issue on
Semantics-enabled Software Engineering

SCOPE - With the prevalence of semantic technologies and the emergence of a networked environment on the Web, which is becoming a focal center of attention for knowledge sharing and process execution, software research and practice would need to move towards adaptability with these emerging technologies. Semantic technologies can play a major role in enhancing the reusability and extensibility of software systems, supporting improvements in quality assurance and measurement, speeding software development through semantic-aware component-based systems and commercially off the shelf products (COTS), and many other areas. Software engineering research can hence highly benefit from semantic techniques. We solicit high-quality contributions with consolidated and thoroughly evaluated application-oriented research results or review articles in the area of semantic enabled software.

SUGGESTED TOPICS:

- Visions for semantic-based software development
- Integration of software and Semantic Web languages
- Integration of formal methods and Semantic Web languages
- Software specification and Semantic Web languages
- Component discovery and ontologies
- Feature modeling and ontologies
- Ontology reasoning for software engineering
- Semantic annotations in software engineering
- Semantic Web-based knowledge management for software engineering
- Ontology-driven software architectures
- Semantic technologies in software maintenance tools
- Semantic business process modeling
- Semantic Web and software architectures

TIMELINE:

- Submission Deadline: 1-May-2010
- Reviews Completed: 31-Jul-2010
- Major Revisions Due: 15-Sept-2010
- Re-reviews Completed: 15-Dec-2010
- Minor Revision Due: 15-Jan-2011
- Final recommendations: 15-Feb-11
- Final Manuscripts Due: 10-Mar-11

PAPER SUBMISSION DETAILS – Authors are invited to submit original research contributions in PDF format to <http://mc.manuscriptcentral.com/smcc-ieee>. Authors should state in their cover letter to the EiC that "This manuscript is submitted for the special issue on Semantics-enabled Software Engineering (Editors: Ebrahim Bagheri, Dragan Gasevic, and Jeff Z. Pan)". Submission instructions can be found under "Information for Authors" at <http://www.ieee-smc.org/publications/index.html>

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