Call for Papers:

Special issue on "Trustworthy Software Systems for the Digital Society"

Journal of Systems and Software

Creating the digital society calls for all aspects of computing, software development, software systems engineering, and applications. To sustain it, however, the need for trustworthy software systems is of paramount importance. Foundations, methodologies, architectures, and mechanisms that support modeling, design, implementation, and evaluation of trustworthy software systems and applications are of great concern.

New computing paradigms and techniques have emerged in recent years for developing software systems in the Internet era, such as service-oriented computing, cyber physical system, and Internet of things. This special issue focuses on innovative methods and techniques in order to address unique trustworthy issues introduced by new computing paradigms and techniques. Original submissions reflecting latest research observation and achievement in the following areas are invited:

- Software life cycle, evolution, and maintenance
- Requirements engineering
- Formal methods
- Software architecture and design
- Software testing
- Reliability, metrics, and fault tolerance
- HCI and usability
- Security
- Real-time and embedded systems
- Mobile & pervasive computing
- Smart computing
- Web semantics
- Web services and systems
- Cloud computing
- Education and learning
- Applications

Submissions

Articles may be invited to submit directly to the special issue, or be selected for the special issue from papers presented at the COMPSAC 2012, The 36th Annual International Computer Software and Applications Conference (www.compsac.org). For direct submission, articles must be formatted according to Journal of Systems and Software guidelines: (http://www.elsevier.com/wps/find/journaldescription.cws_home/505732/authorinstructions#16001).

Manuscripts must be submitted via the online submission and peer review systems at http://ees.elsevier.com/jss. Follow the submission instructions given on this site; please select the article type as “Special Issue: COMPSAC”. Previously published conference papers must be substantially revised, improved, and extended from their earlier versions with at least 35% new “contributions” and the authors provide a summary of the new contributions over the published papers.

Key dates

Submission deadline: 10 October 2012
Acceptance/rejection notification: 10 December 2012
Revised manuscripts ready: 25 March 2013

Guest Editors:

Xiaoying Bai, Tsinghua University, P.R. China
Atilla Elci, Süleyman Demirel University, Turkey
Mohammad Zulkernine, Queen’s University, Canada

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