Call for Papers
Special Section on Software Systems 2019

Introduction
Software systems have played critical roles in scientific research, business and society. Research on software systems focuses on construction, operation, maintenance, and assessment of software systems. This special section is an effort to encourage and promote research to address challenges from the software systems perspective. The goal of this special section is to present the state-of-the-art and high-quality original research papers in the area of software systems. Extended versions of papers published in conferences, symposiums, or workshop proceedings may be submitted with new contributions. Especially, we welcome the extended versions of papers published in first class software systems conferences. However, survey papers will not be considered.

This special section includes two themes: Internetware and Beyond; and Trustworthy Computing Systems and Networks. However, this special section also welcomes all other aspects of research on software systems.

Past articles from the JCST Special Section on Software Systems are at: http://jcst.ict.ac.cn, published in: Vol. 30, No. 5; Vol. 31, No. 5; Vol. 32, No.6; Vol. 33, No.5.

Theme: Internetware and Beyond
The Internet, not only of computers, but also of things and human users, has been rapidly and profoundly changing how software applications are constructed, deployed and used. To achieve their application goals, software systems on this Internet platform need to coordinate autonomous third-party services and resources, adapt to constant changes in the environment where they are situated and in the requirements they must satisfy, and continuously maintain for a level of service quality satisfactory to users. This theme aims to provide a forum where researchers and professionals from multiple disciplines and domains share ideas to explore and address the challenges brought by Internetware. It solicits submissions describing results of theoretical, empirical, conceptual, and experimental software engineering research related to Internetware. Topics of interests include but are not limited to:

* Novel software paradigm for Internetware
* Modeling and implementation of Internetware
* Requirements engineering for Internetware
* Software analysis, verification and testing
* Mining software repositories
*Software dependability, trustworthiness and confidence
*Software architecture and design
*Crowd-based methods, techniques and tools for Internetware
*Socio-technical models and techniques
*Software ecosystem practices and experiences
*Software models and techniques for Internet-based systems, such as:
  cloud computing, service computing, social computing, mobile Internet, Internet of Things, and cyber-physical systems
*Software engineering for/with Big data
*Software engineering for/with artificial intelligence

**Theme: Trustworthy Computing Systems and Networks**

Nowadays, various kinds of novel computing concepts are emerging to enhance our real and virtual worlds towards smart worlds as well as cyber-physical-social-thinking integrated hyper worlds. Accordingly, computing systems are growing in capability and complexity including hardware, software, communications, networks, platforms, services, etc. Advanced computing (AC) aims to discover, develop, and deploy novel computing and networking systems. At the same time, computing must be trustworthy to engender confidence that systems will remain secure and available. Trust/distrust relationships embedded in computing systems and networks are key factors to enable dynamic interactions and cooperation of various users and services. Trusted computing (TC) aims at making computing and communication systems and services available, predictable, accountable, controllable, assessable, sustainable, dependable, persistent, and secure. We solicit submissions reporting software technology innovations in areas including, but not limited to:

* Service computing and engineering
* Cloud computing, fog computing and edge computing
* Software-defined networks and systems
* Green computing and communications
* Mobile and wearable computing
* Vehicular networks and systems
* IoT/IoE technologies and applications
* Big data analytics and technologies
* Advanced cognitive computing and machine learning
* Advanced affective computing and robotics
* Adaptive and intelligent systems
* Trust specifications, models, management, and standards
* Trust, security, and privacy in smart systems
* Blockchain technology and applications
* Cyber life, society and intelligence
* Cyber physical systems and their safety
* Cyber trust, security, privacy and ethics
Important Dates
Submission Deadline: February 28, 2019
Acceptance Decision: June 30, 2019
Publication: September 2019

Submission Procedure
All submissions must be done electronically through JCST’s e-submission system at https://mc03.manuscriptcentral.com/jcst, with a manuscript type: "Special Section on Software Systems 2019".

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