



**Important Dates:**

- *Submission:* July 20, 2011
- *Notification:* Aug. 20, 2011
- *Camera Ready:* Sept. 23, 2011
- *Symposium:* Dec. 12 -14, 2011

**Collocated with**

- SOCA, KSEM, RTSOAA and KASTLES

**Sponsored by**

- IEEE Computer Society;

**Co-sponsors:**

- Arizona State University
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**Program Committee**

Please see SOSE 2011 Website

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**Web site:**

<http://tech.brookes.ac.uk/sose2011/>

**Online Submission Site:**

<http://www.easychair.org/conferences/?conf=sose2011>

**CALL FOR PAPERS**

Starting from 2005, SOSE is one of the pioneering symposia devoted to the research in engineering service-oriented systems. It has addressed issues in various aspects of engineering SOA-based systems from architecture and computing paradigm to the development and quality validation problems and solutions. Service-Oriented Computing (SOC) exploits services as the fundamental elements for developing computer-based systems. It has been applied to various areas and promotes fundamental changes to system architecture.

SOC changes the way software systems are being analyzed, architected, designed, implemented, tested, evaluated, delivered, consumed, maintained, and evolved, SOSE symposia focuses on the SOC from the perspectives of software engineering and system engineering.

Recently, cloud computing further expands the scope of SOC to include new subjects such as Platform as a Service (PaaS), Software as a Service (SaaS), Infrastructure as a Service (IaaS), and Testing as a Service (TaaS).

Continuing the tradition of the last five SOSE Symposia, the 6th SOSE provides a forum for researchers and practitioners to exchange latest observations, insights, research achievements and visions in the engineering of service systems. Particularly, SOSE 2011 invites original submissions in all the areas of the system engineering, software engineering methods, techniques, tools, applications, and experiments for software services.

**A. Regular Research Papers.**

The topics include, but are not limited to, the following:

**Track I: Service-Oriented Computing– System Engineering**

- Business process integration and management
- Governance for large-scaled service-oriented systems
- Modernization, migration, and servicetization of legacy systems
- Modeling and simulation of service-oriented systems
- Adaptation, control and optimization in service-oriented systems
- Social and collaborative engineering of services systems
- Service interoperability, composibility, quality, reliability, mobility, scalability, elasticity, and security

**Track II. Service-Oriented Computing - Software Engineering**

- Model-driven development of service-oriented systems
- Multi-tenant architecture, configurable architecture
- Requirement and design modeling of services and systems
- Specifications of services and systems
- Semantic services and semantic-enabled service engineering
- Architecture including event-driven architecture, code generation,
- Dynamic service delivery, deployment and evolution
- Lifecycle models, reusability, and
- Metrics and measurement of services, QoS, and QoE
- Runtime verification, validation, monitoring, testing on-the-fly and policy enforcement

**Track III. Service-Oriented Computing - Emergent Paradigms and Technologies**

- Service oriented architecture, analysis, modeling, design, validation, QoS, and evaluation for Software as a Service (SaaS)
- Service oriented architecture, analysis, modeling, design, validation, QoS, and evaluation for Platform as a service (PaaS)
- Service governances, policies, standards, technologies in cloud computing
- Issues, solutions, techniques, tools and standards for Testing as a Service (TaaS)

**B. Applications and Industry Experiences**

Papers report case studies, empirical research and practical experiences in service engineering are invited. The topics include but not limited to the following.

- Enterprise architecture and solution frameworks

- Platforms and tools for system and software engineering
- Application composition based on services
- Case studies, experiments and evaluation of services and application systems

**C. Review of the State-Of-The-Art of the Research on Service Engineering and Emergent Subjects**

In addition to regular research papers sessions, this year's symposium will invite tutorial papers which review the current advance in service engineering and related emergent subjects. These papers should summarize the recent research advance in service engineering from different perspectives, identify the open issues and future needs and challenges in the field. In addition, SOSE 2011 also welcome timely problem discussion papers that focus on new issues, needs and challenges in emergent subjects. The topics include, but not limited to, the following:

- Modeling, simulation and static analysis of service-oriented systems,
- Testing, verification, validation and quality assurance in the development of service oriented systems
- Governance and policies in service oriented software development
- Engineering techniques and tools to support the publishing, discovery and composition of services
- Architectural and detail designs of services and code generation of service software
- Techniques and tool support the deployment and execution of services
- Measurements and metrics of QoS in SOA-based application systems

**Paper Submission**

Authors are invited to submit original, unpublished research papers as well as industrial practice papers and position papers. Simultaneous submissions to other publication venues are not permitted.

- **Format:** Please submit papers in PDF format through the SOSE web site. Manuscript should be prepared following the IEEE Computer Society Press Proceedings Author Guidelines ([http://www.computer.org/portal/pages/cscps/cps/cps\\_forms.html](http://www.computer.org/portal/pages/cscps/cps/cps_forms.html)).

- **Page Limit:** The page limits and evaluation criteria for three different types of papers are given below.

Paper Type	Evaluation criteria	Page Limit
Research paper	relevance, significance, originality, clarity, and technical merit	12 pages
Industrial practice /Case study	relevance, clarity, and value to the research community	6 pages
Survey-based tutorial papers	coverage of the literature, relevance, soundness, technical validity, insightful discussion, timeliness, well-structuredness and clarity in presentation.	12 pages

- **Publication:** All accepted papers will be included in the symposium proceedings, which will be published by the IEEE Computer Society Press and included in the IEEE Digital Library. At least one author of each accepted paper must attend the symposium to present the work.
- **Journal Special Issue:** We plan to publish a special journal issue for the extended and revised versions of selected best papers presented at the SOSE 2011 Symposium.
- **Best Paper Award:** One paper will be given the SOSE 2011 Best-Paper-Award at the conference for the best quality of the paper and presentation.