



## **Call for Papers and Contributions**

### **Sixth Annual International Conference on COTS-Based Software Systems**

**ICCBSS 2007**

**February 26 - March 2, 2007**

**Banff, Alberta, Canada**

**Organized by:**

**European Software Institute, Spain  
Software Engineering Institute, USA  
National Research Council Canada**

**Sponsored by:**

**IEEE Computer Society\***

### **Systems' Composition and Interoperability – A World in Transition.**

Successful integration and interoperation of components, including commercial off-the-shelf (COTS) software, and existing systems has become essential to creating and maintaining responsive systems that meet business and mission goals. Very few organizations can afford to build such large systems of systems from scratch.

In this sixth ICCBSS we look forward to expanding to issues of interoperability that have become critical for system development and acquisition. New technologies and domains have exploded in growth, along with the complexity and number of systems and systems of systems. We see a wide range of service-oriented architectures, migration to network-centric operations, and an increasing application of free and open source software (FOSS). ICCBSS 2007 will address a wide scope of challenges and approaches—technological and organizational—for constructing, acquiring, deploying, and sustaining software-intensive systems that require interoperation among a wide variety of systems and components.

In the spectacular setting of the Banff National Park, this Conference will provide a forum in which researchers and practitioners from industry, government, and universities can gather to exchange ideas about current best practices and to help develop a roadmap and community of interest for research directions in systems integration and interoperability, including the creation and maintenance of systems that incorporate COTS software products. ICCBSS 2007 comprises keynote presentations, technical paper tracks, challenging workshops, and a *Best Paper Award*. The proceedings from ICCBSS 2007 will be published by IEEE Computer Society Press.

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\* Sponsorship pending approval

In this Conference in transition we are looking for contributions related to COTS-Based Systems, Systems of Systems, and Systems Interoperability. These contributions can take the form of research papers, experience reports or surveys. We are focusing on the following areas:

- **Software Engineering:** Architectures for Interoperability; Semantics for Interoperability; Capitalizing on Emergent Behavior in Systems-of-Systems; Quality Attributes in Systems-of-Systems (scalability, security, performance, reliability, safety, usability, ...).
- **Management:** Ownership; Tendering and Acquisition; Business Processes; Organizational Issues in Systems-of-Systems; Costing, Risk Management and Metrics in System-of-Systems; Diagnostic Tools for System-of-Systems.
- **Development Process:** Evaluation and Selection of Components; Effects of Integration and Interoperability Requirements on Development Processes; Critical System Development; COTS and Component-Based System Process Integration; Migration Processes; Testing in Systems-of-Systems; Maintenance, Evolution, and Obsolescence Issues of Systems-of-Systems.
- **Technology:** Technologies for Interoperability; Benchmarking; Open Source Technology; Autonomic Computing; Service-Oriented Architectures; Web Services; Grid Computing; Dynamic System Composition.
- **Marketplace:** Standards; Legal Issues (including FOSS).

**Workshop proposals:** The Conference aims to build and expand on existing communities of interest; to define and describe Integration and Interoperability; and to develop a roadmap for the new research agendas—a wonderful opportunity to be at the forefront of the new research in integration and interoperability. We look for the workshop proposals to facilitate this process.

**Important Dates:**

- June 30, 2006 – Submission of Abstracts
- July 14, 2006 – Submission of Technical Papers, Experience Reports, Panels, Tutorials, & Workshops
- September 15, 2006 – Acceptance Notification
- November 3, 2006 – Final Submission for Proceedings

For submission information, please visit the ICCBSS Web site at <http://www.iccbss.org/>

We look forward to receiving your submissions and meeting you at ICCBSS in February 2007.

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