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# International Conference on Software Process – ICSP 2009

May 16-17, 2009, Vancouver, Canada (co-located with ICSE 2009)

## Call for Papers

Theme: Processes to Develop Trustworthy Software

Software development takes place in a dynamic context of frequently changing technologies, and limited resources. Development teams world-wide are under ever-increasing pressure to deliver trustworthy software products more quickly and with higher levels of quality. At the same time, global competition is forcing software development organizations to cut costs by rationalizing processes, outsourcing part or all of their activities, reusing existing software in new or modified applications and evolving existing systems to meet new needs, whilst still minimizing the risk of projects failing to deliver. To address these difficulties, new or modified processes are emerging including lean and agile methods, plan-based product line development, and increased integration with systems engineering processes. For ICSP 2009, articles addressing process support to develop trustworthy software are of particular interest.

ICSP 2009 invites papers describing completed research or advanced work-in-progress in all areas of software and systems development process including: agile software processes, CMMI, novel techniques for software process representation and analysis; process tools and metrics; and the simulation and modeling of software and systems processes. As in previous years, ICSP 2009 will organize a special track for papers on software and systems process simulation. Contributions reflecting industrial experience are particularly welcome.

ICSP 2009 continues a long tradition of software process research positioning itself as the new leading edge event for systems and software process research. ICSP 2009 will be co-located with ICSE 2009 in Vancouver, Canada.

The increasing challenges faced by the software industry combine to increase demands on software processes. As a result, a number of practical questions arise, such as:

- What are success factors for trustworthy software development?
- What is the interface between software process and business process?
- What are the implications of adopting systems engineering processes and integrating them with software processes?
- What is the right degree of process agility in different contexts for the development of trustworthy?
- What defines a process-based competitive advantage?
- How do changes in process need to be reflected and supported in the organization?
- What is the return on investment for CMMI, Six-Sigma, Spice, ISO and other SPI paradigms and industry standards?
- How can we predict the effects of process improvement initiatives?

Meanwhile, to address these practical questions, a corresponding set of research questions arise, such as:

- Which aspects of trustworthiness (e.g., security, and quality) are more important in the software industry?
- How can more precise micro-process capabilities be better integrated with more strategic macro-process capabilities?
- How can process representation and analysis capabilities better support expression and reasoning about unavoidably incomplete, inconsistent, ambiguous, or emergent process definitions?
- How can software processes and associated methods, tools, and metrics better scale up to complex software-intensive systems of systems, and scale down to support small-to-medium sized enterprises?
- How can software processes be better supported by and linked to underlying theories of successful SW development?
- How can various forms of simulation and modeling methods and tools be better integrated with each other and with other process representations and reasoning tools?
- How can useful process assets (including process models and process simulations) be safely composed and organized into useful asset libraries?

Topics of interest for the special track on research and applications related to software process simulation include but are not limited to:

- Process simulation of emergent issues and processes (such as global software development, software/systems acquisition, integration of software and systems processes, open source development, software safety and security, etc.)
- Advances in software process simulation modeling representations and methods, yielding generalized and adaptable process simulation models featuring "plug and play" process model components, patterns or archetypes
- Applications of software process simulation approaches in industry, including cost-benefit analyses of software process simulation applications in various contexts

Springer-Verlag agreed to publish the proceedings of ICSP 2009 in Lecture Notes in Computer Science ([www.springeronline.com/lns](http://www.springeronline.com/lns)); see our website for more details.

Successful authors will also be invited to submit updated papers for inclusion in a special issue of the international journal of *Software Process: Improvement and Practice*.

Submitted papers should be in English, and between 10 to 12 pages in length including figures (Springer format). Files in PDF format should be submitted through the web-based submission system on the ICSP 2009 website. Authors should state whether their submission is intended for the special Process Simulation track. In addition, three or four keywords should be included to identify the research domain that the paper addresses.

Key Dates: Submission Deadline: **December 5, 2008**  
Acceptance Notification: **January 23, 2009**  
Camera-Ready version Deadline: **March 6, 2009**

For further information regarding paper submission and formats, please refer to the ICSP 2009 website at: [www.icsp-conferences.org/icsp2009](http://www.icsp-conferences.org/icsp2009)



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