



ICSSP

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International Conference on Software and System Processes - ICSSP'17

Pierre and Marie Curie University, Paris, France
July 5. - 7., 2017

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Important Dates

Full & short paper

- Abstract: Jan 1, 2017
- Submission: Jan 8, 2017
- Notification: March 12, 2017
- Camera-ready: April 23, 2017

Posters

- Submission: March 26, 2017
- Notification: April 9

Tutorials/Workshops

- Submission: Jan 1, 2017
- Notification: Jan 15, 2017

Conference

- Conference: July 6-7, 2017
- Workshops and Tutorials: July 5, 2017



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The New Horizons for Process: New Paradigms and Data Driven Analytics

July 5-7, 2017

Pierre and Marie Curie University, Sorbonne Universités, Paris, France

Whatever the field, software, military, healthcare or business, processes are everywhere. Not only processes are used to design, produce, and deliver an enterprise's products and services, processes are also used to instantiate enterprise/government practices, policies and regulations. Fundamentally, processes are the means by which an enterprise satisfies customers and creates value and, they comprise the building blocks of all information systems. Given their importance to the success and profitability of the firm, it is more important than ever to seriously consider the design and improvement of these processes and to make sure that they are free of flaws and inconsistencies.

At the same time, recent advances in the hardware domain have paved the way for more complex and critical systems making the development processes of these systems even more challenging. The Internet of Things (IoT) applications and Cloud computing infrastructures have introduced an increasing need for distributed system applications and more intelligent system segmentation. Big data solutions offer the potential to learn from vast amounts of information generated by our systems. This information can be used to satisfy business needs or simply to learn and to improve our systems.

The ICSSP 2017 conference seeks to explore how these new trends impact and constrain the way we design processes whatever the kind and whatever the application domain. The conference also seeks to inquire how new visions and tools that incorporate cloud computing, big data, IoT, and devops (or other new technologies) can be used by processes to design the next generation of systems and to improve collaboration and coordination between teams. As a community, we ask: What will the next generation of process paradigms look like? How will all business and system stakeholders in the development and evolution of processes be addressed?

Specific areas of interest include but are not limited to:

- Big data driven process modeling, assessment, and improvement
- Mining software/business process repositories (including code, bug trackers, etc.) to improve processes
- Dynamic process evolution, variability, and adaptability for next generation of process paradigms
- Predictive monitoring and process deviance mining
- Empirical evidence of the effectiveness of Agile/Lean practices and approaches in software, hardware, and hybrid systems development and evolution
- Process issues in developing adaptive and evolving software systems
- Processes in non-software domains (e.g., business, health care, manufacturing, transportation, etc.) with a demonstrated relationship to software process challenges
- Continuous process improvement in diverse areas and context
- Distributed/Global development and large-scale processes
- Process modeling, simulation and analysis
- Process/Project management and assessment
- Process metrics and tools
- Cost estimation and project planning
- Processes for cutting-edge software technologies, including (but not limited to) ubiquitous computing, cloud computing, multi-core technologies, and cellular technologies
- Processes for approaching nanotechnology, constructed materials, and other software-like development activities.
- Empirical studies and experience reports, encompassing complete or parts of software and systems development lifecycle

We invite the following submissions:

- **Full papers** (10 pages) that reflect completed and evaluated research on novel approaches to major software and systems engineering process challenges and in-depth experience reports of significance for the community. *(Enhanced versions of the best research papers will be included in a special issue of the Journal of Software: Evolution and Process.)*
- **Short papers** (5 pages) that describe less complete work-in-progress research papers (e.g. Ph.D work research) or conceptual and position papers addressing open research questions and future research directions.
- **Posters** for work that is not yet ready for publication but could be of interest to other researchers in terms of ideas, participation, or collaboration.
- **Workshops** on relevant topics that leverage multiple participants. Papers provided in the context of workshops will not be included in the proceedings; workshop leaders may offer other means of publication if appropriate.
- **Tutorials** on proven or proposed processes and practices of interest to the community by qualified individuals.

Sponsors



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