

25th IEEE International Conference on Program Comprehension

May 22 and 23, 2017 Buenos Aires - Argentina

General Chair

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Technical Track Program Chairs

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Abstract Submission: January 18, 2017

Paper Submission: January 25, 2017

Author Notification: February 27, 2017

Camera Ready: March 29, 2017

Early Research Achievement Track Chairs

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Abstract Submission: March 1, 2017

Paper Submission: March 4, 2017

Author Notification: March 14, 2017

Camera Ready: March 29, 2017

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Abstract Submission: February 18, 2017

Paper Submission: February 25, 2017

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Tool Demo Track Chairs

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Abstract Submission: March 1, 2017

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Proceedings Chair

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CALL FOR PAPERS

ICPC is the principal venue for works in the area of program comprehension. Topics of interest for all tracks include but are not limited to:

- Tool support for program comprehension;
- Novel visualization techniques and interfaces to support program comprehension, including searching, browsing and analyzing;
- Novel text summarization techniques and interfaces to support program comprehension, including searching, browsing and analyzing;
- Cognitive theories for program comprehension, including experiments, empirical studies, and case studies;
- Individual, collaborative, distributed, and global program comprehension;
- Comprehension of specific types of software systems, such as open/closed source, mobile applications, spreadsheets, web-based systems, legacy systems, product lines, libraries, multi-threaded applications, and systems of systems;
- Comprehension in the context of diverse software process models and specific lifecycle activities, such as: maintenance, evolution, reengineering, migration, security, auditing, and testing;
- Comprehension of software artifacts ranging from requirements documents to test cases and crash logs; from API documentation to models, meta-models and model transformation; and from Stack Overflow questions & answers to GitHub code review messages---all artifacts software developer encounters when creating or evolving software.
- Empirical evaluations of program comprehension tools, techniques, and approaches;
- Human aspects in program comprehension;
- Comprehension and legal issues, such as due diligence, intellectual property, reverse engineering, and litigation;
- Issues and case studies in the transfer of program comprehension technology to industry.

Technical Research Track

This track promises to provide a quality forum for researchers and practitioners from academia, industry, and government to present and to discuss state-of-the-art results and best practices in the field of program comprehension.

The best Technical Research Track papers at ICPC 2017 will be invited to be revised and extended for consideration in a special issue of the Empirical Software Engineering journal by Springer.

Early Research Achievement Track

The goal is to provide researchers and practitioners with a forum for presenting great, promising ideas in early stages of research. ERA papers should be challenging the status quo of program comprehension with new research directions and provocative ideas. This track is the perfect place for a paper that aims to set the agenda for a new line of research and a series of future papers. ERA papers are intended to describe research in progress, even when a full-fledged evaluation of the research was not yet performed. Ideally, ERA authors will combine research topics in new ways, establish connections to other fields outside of classical program comprehension, as well as argue for the importance of program-comprehension research in new areas.

Industry Track

We look forward to learning what research works in practice (and what does not) and perhaps even gaining insight into real world problems that are relevant but overlooked.

There are three types of papers that could be accepted:

New Research Challenge - This is a paper where you describe unsolved problems from industry that you think should be researched.

Tech Transfer - This type of paper describes taking a research method and applying it in practice. It describes why the method was chosen, what the problem was, and how it was solved.

Experience reports/Case Studies - This type of paper describes an evolution/maintenance project. There does not have to be new invention in the paper.

Tool Demo Track

Tool Demo proposals can consist of either academic prototypes or industry-oriented tools. We encourage submissions of demo papers that implement a research approach, a prototype, or a mature product ready for deployment. Tool Demos provide a great opportunity to promote your tools and lively discuss and receive feedback from experts in