

40TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING

www.icse2018.org



CELEBRATING
50
YEARS OF
SOFTWARE ENGINEERING

GOTHENBURG
MAY 27 - JUNE 3, 2018

SWEDEN



SUBMISSION DATES

Technical papers	Aug 25, 2017
Workshop Proposals	Oct 10, 2017
SE in Practice	Oct 23, 2017
SE in Education and Training	Oct 23, 2017
SE in Society	Oct 23, 2017
NIER	Oct 23, 2017
Technical Briefings	Nov 01, 2017
Doctoral Symposium	Nov 20, 2017
Demonstrations	Nov 20, 2017
ACM SRC	Jan 08, 2018
Student Volunteers	Jan 22, 2018
Posters	Feb 05, 2018

SUPPORTED BY





40TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING

MAY 27 - JUNE 3 2018
GOTHENBURG, SWEDEN



40TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING

MAY 27 - JUNE 3 2018
GOTHENBURG, SWEDEN

ORGANIZING COMMITTEE

General Chair Mica Crnkovic, Chalmers University of Technology & University of Gothenburg, Sweden	Doctoral Symposium Chairs Tracy Hall, Brunel University, UK Julia Rubin, University of British Columbia, Canada
Conference Chair Michel Chaudron, University of Gothenburg & Chalmers University of Technology, Sweden	Poster Chairs Raffaella Mirandola, Politecnico di Milano, Italy Yury Brun, University of Massachusetts, Amherst, US
Program Chairs Marsha Chechik, University of Toronto, Canada Mark Harman, Facebook & University College, London, UK	Research Student Competition Chairs Olga Bayral, Carleton University of Technology, and Design, Singapore Jun Sun, Singapore University of Technology, and Design, Singapore
Journal-First Chair Gerardo Canfora, University of Sannio, Italy	SCORE Chairs Christine Julien, The University of Texas at Austin, USA Rafael Pirkhidnicki, Faculdade de Informatica da PUCRS, Brazil
Co-located events Chair Tom Zimmermann, Microsoft Research, USA	New Faculty Chairs Lars Grunke, Humboldt-Universität zu Berlin, Germany Betty Cheng, University of Illinois at Urbana-Champaign, USA Xiaoying Bai, Tsinghua University, China
50 years of SE Chairs David Roseblum, National University of Singapore, Singapore Nenad Medvidovic, University of Southern California, USA	Submission Chair Yue-Jia, University College London, UK
Workshops Chairs Paul Grünbacher, Johannes Kepler University Linz, Austria Dimitra Giannakopoulou, NASA Ames Research Center, USA	Most Influential Paper ICSE-N-10 Volker Guhn, University Duisburg-Essen Germany Matt Dwyer, University of Nebraska, USA
NIER Chairs Andrea Zisman, The Open University, UK Sven Apel, University of Passau, Germany	Web Chairs Josip Maras, University of Split, Croatia Hugo Andrade, Chalmers University of Technology, Sweden
Industry Forum Chairs Pekka Abrahamsson, Norwegian University of Science and Technology, Norway Judith Bishop, Stellenbosch University South Africa	Student Volunteer Chairs Christian Berger, University of Gothenburg & Chalmers University of Technology, Sweden Birgit Penzenstadler, California State University Long Beach, USA
SEET Chairs Patricia Lago, Vrije Universiteit Amsterdam, The Netherlands Michal Young, University of Oregon, USA	Proceedings Chairs Barbora Buhnova, Masaryk University Czech Republic Patrizio Pelliccione, University of Gothenburg & Chalmers University of Technology, Sweden
SEIP chairs Frances Paulisch, Siemens AG, Germany Jan Bosch, Chalmers University of Technology, Sweden	Publicity Chairs Tao Xie, University of Illinois at Urbana-Champaign USA Henry Muccini, University of L'Aquila, Italy Federico Ciccozzi, Mälardalen University Sweden Ivano Malavolta, Vrije Universiteit Amsterdam, The Netherlands Malin Ulvfarson, Chalmers University of Technology, Sweden
SEIS Chairs Valerie Issarny, INRIA, France Sachram Duestdar, TU Wien, Austria	Local Industry Chair Tien Nguyen, University of Texas, USA Anne Koziolek, Karlsruhe Institute of Technology, Germany Jaana Nygård RISE, Sweden
Technical Briefings Chairs Jane Cleland-Huang, University of Notre Dame, USA Per Runeson, Lund University, Sweden	
Demonstrations Chairs Tien Nguyen, University of Texas, USA Anne Koziolek, Karlsruhe Institute of Technology, Germany	

ICSE, the International Conference on Software Engineering, is the premier software engineering conference, providing a forum for researchers, practitioners and educators to present and discuss the most recent innovations, research, experiences, trends and concerns in the field of Software engineering.

In 2018 ICSE will celebrate its 40th anniversary, and 50 years of Software Engineering – 50 years of tremendously successful promotion of research, education and practices in Software Engineering.

ICSE 2018 is coming to Gothenburg, Sweden. Science and research are a genuine part of the Scandinavian culture visible through the institution of Nobel Prize awards. In addition, Sweden hosts high technology companies in which software plays an essential part.

Town Gothenburg, with its two internationally renowned universities, with many ICT and ICT-related companies, with many cultural attractions, impressive modern infrastructure including the Scandinavian largest convention center, and surrounding beautiful nature is welcoming you!

ICSE 2018, in addition to its standard events will provide unique events:

CELEBRATION OF 50 YEARS OF SOFTWARE ENGINEERING – special guest, keynotes, and informal celebration will mark this special event

INDUSTRYFORUM – events specifically dedicated to get together researchers and practitioners to benefit from their experiences and enabling new cooperation.

Welcome to ICSE 2018, Gothenburg
May 27 - June 3, 2018



IEEE Software & IEEE Computer is planning Software Engineering in its 50th Anniversary joint theme issue. To get more information please fill-in your details at <https://goo.gl/forms/nrhga21UCRd9JTOs1>

MAIN SPONSORS AND SUPPORTERS



CALL FOR PAPERS

ICSE 2018 has many events that enable presentations and discussion of different topics in Software Engineering and related areas, where the participants can present and discuss initial ideas, work in progress, preliminary results, on-going work, and final findings and results rigorously analyzed and presented. The following events and call for papers are available:

Main Conference tracks

Technical track - We invite submissions of high quality research papers that describe original and unpublished results on any topic of empirical or theoretical software engineering research. We welcome submissions addressing topics across the full spectrum of software engineering, broadly construed.

Journal-First Paper Initiative - ICSE has begun to form partnerships with prestigious journals to incorporate journal-first papers into the ICSE program. Through this initiative, authors of journal-first papers accepted in the partnering journals will be invited to present their work at ICSE.

Software Engineering in Practice Track - The SEIP Track is the premier venue for researchers and practitioners to discuss innovations and solutions to concrete software engineering problems. SEIP will gather highly-qualified industrial and research participants that are eager to communicate and share common interests in software engineering.

Software Engineering in Society - The SEIS scope is bold and ambitious in that it takes a specific focus on the impact of the accelerating speed of digital technology advances in society. SEIS authors are encouraged to contribute both mature, and novel but soundly-motivated research. SEIS welcomes multi- and interdisciplinary research showcasing how software engineering can contribute to the many dimensions of software embedded in society.

Software Engineering Education and Training - Synergy between research and education is the key premise of a research university. Many of us play dual roles as software engineering researchers and software engineering educators. SEET welcomes papers that discuss education of Software Engineering.

New Ideas and Emerging Results - NIER provides a forum for innovative, thought-provoking research in software engineering to accelerate the exposure of the community to early yet promising and potentially inspiring research efforts.

The main tracks are enriched by several complementary activities. **ACM Student Research Competition** invite PhD students to compete in presentation of their research, **Demonstrations** enable presentation of tools and different type of system and software implementations, **Doctoral Symposium** is dedicated to PhD students to discuss their research, and **SCORE** is a competition for master students in Software Engineering. Finally, **Posters** are intended for a broad participation, for a presentation of their research from starting ideas to the concrete results. All events invite submission of papers that will be published in ICSE proceedings.

Workshops - The workshops at ICSE provide a forum for groups of 20-50 participants to discuss topics in software engineering research and practice. ICSE workshops serve as incubators for scientific communities that form and share a particular research agenda. ICSE workshops also provide opportunities for researchers to exchange and discuss scientific and engineering ideas at an early stage, before they have matured to warrant conference or journal publication.

Technical Briefings are short tutorials for researchers and practitioners giving fast insight in the latest technologies, tools, theories and methods.

All accepted contributions will be published in ICSE Proceedings available at ACM Digital Library, and IEEE Xplore Digital Library.

SUBMISSION DUE DATES

Technical Papers	Aug 25, 2017	Technical Briefings	Nov. 1, 2017
Workshop Proposals	Oct 10, 2017	Doctoral Symposium	Nov. 20, 2017
Software Engineering in Practice	Oct 23, 2017	Demonstrations	Nov. 20, 2017
Software Engineering Education and Training	Oct 23, 2017	ACM Student Research Competition	Jan. 8, 2018
Software Engineering in Society	Oct 23, 2017	Student Volunteers	Jan. 22, 2018
New Ideas and Emerging Results	Oct 23, 2017	Posters	Feb. 5, 2018

www.icse2018.org