The 40th ACM/SIGAPP Symposium on Applied Computing
March 31- April 4, 2025, Sicily, Italy
Proposal for Track on Software Engineering

Track Co-chairs

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Scope and Aims

The Objective of the Software Engineering (SE) Track is to provide an open forum for discussing a wide range of experiences and ideas for developing high-quality software applications more effectively and efficiently. The SE track examines both macroscopic and microscopic aspects of in-depth theories, tools, and practices in the field of software engineering. It provides a platform for academic researchers and industry practitioners to seek collaboration opportunities, and identify the state-of-art technologies, which are vital to the software engineering community.

Topics of Interests

Topics of interest include, but are not limited to, the following:

- Architecture, Framework, and Design Patterns
- Requirements Engineering
- Process, Standards, and Project Management
- Software Maintenance and Evolution
- Software Testing and Verification
- Mining Software Repositories
- Quality Assurance and Management
- Verification, Validation, Testing, and Analysis
- Safety, Security, Privacy, and Risk management
- Dependability and Reliability
- Fault Tolerance and Availability
- Metrics and Measurement
- Formal Methods and Theories
- Aspect-Oriented Software Development and Design

- Component-Based Development and Reuse
- Empirical Studies, Benchmarking, and Industrial Best Practices
- Pervasive, Ubiquitous, Smart Service-Oriented Computing
- Search-based Software Engineering
- Applications and Tools

Paper submission & Selection

Research papers and experience reports related to the above topics are solicited. Submissions must not have been published or be concurrently considered for publication elsewhere. Papers should be submitted in the PDF format with no more than six pages using the ACM-SAC proceedings format. Author's names and affiliations should be entered separately at the submission site and not appear in the submitted papers. Each submission will be received in a double-blind process according to the ACM-SAC Regulations. Paper selection is based on the originality, technical contribution, presentation quality, and relevance to the SE Track. Upon paper acceptance, prospective authors must provide a camera-ready version which takes into account the review comments. The conference proceedings will be published by ACM and also available online through the ACM Digital Library.

Important Dates

- September 20, 2024: Paper submission due
- October 30, 2024: Paper author notification
- November 29, 2024: Camera-ready copy submission due

Activities

Upon acceptance of the proposal, the Co-chairs will disseminate the call-for-papers of the track to major ACM and IEEE mailing lists and several other relevant mailing lists (e.g., SEWORLD, DBWorld) as well. It is also requested that the Track Program Committee (TPC) members help in the dissemination of the Call for Papers. TPC should have a wide geographic distribution and should be large enough to allow at least 3 reviews per paper without a high load per reviewer. All procedures will follow specific guidelines provided to track chairs by ACM-SAC Conference Chairs.

Rationale and Success Story

This track has been held since 1991, consistently attracting the interest of the research community in the field of application, practice, and tools, and beyond. Submissions have been characterized by an ever-increasing quality profile throughout the past editions. It must be underlined that the SE track has been one of the largest sessions in the past (at least) ten editions of SAC. In 2024, for example, 8 high-quality papers were presented at the session.

In 2024, the Call for Papers for SE Track attracted 33 final paper submissions from 15 different

countries. All submitted papers underwent the blind review process, and 8 papers were finally accepted as full papers for inclusion in the Conference Proceedings and presentation during the Symposium. To avoid any last-minute failure of getting at least three completed reviews per paper, we assigned five reviewers to each paper.

Through this rigorous review process done by 30 PC members, 8 papers were finally accepted as full papers for inclusion in the Conference Proceedings and presentation during the Symposium. The final acceptance rate for SE Track was 25%. In addition to the accepted full papers, 3 papers that received relatively higher enough review scores were accepted as short papers for the Poster Program, and 1 SRC Program was also accepted.

Track Chair Qualifications

All three track co-chairs are active ACM SIGAPP members and have participated in past ACM SAC conferences. Byungjeong Lee and Eunjee Song have successfully organized the Software Engineering (SE) Track for ACM SAC since they first served as track co-chairs in 2015, and so has Geunseok Yang since 2023.

Biographical Sketch of Prof. Byungjeong Lee

Byungjeong Lee is currently a Professor in the Department of Computer Science and Engineering at University of Seoul, Korea. He received his Ph.D., M.S. and B.S. in Computer Science degrees from Seoul National University in Korea in 2002, 1998 and 1990, respectively. He worked for Hyundai Electronics company for six years after receiving his B.S. His research interests include software modeling and software evolution in developing and maintaining large scale systems. Dr. Lee has published around 110 papers in the International journals/Conferences. He is a member of the IEEE and ACM SIGAPP and served as a member of the program committee of the ICSM 2013 and a Korean Co-Located Events co-Chair of ICSE 2020. He served as a Co-Chair of the Software Engineering Track of the SAC since 2015. He can be contacted at bjlee@uos.ac.kr. Web page: http://selab.uos.ac.kr.

Biographical Sketch of Prof. Eunjee Song

Eunjee Song is currently an Associate Professor and Graduate Program Director in the Department of Computer Science at Baylor University. Her main research interests include applying aspect-oriented modeling (AOM) and model-driven engineering techniques to specifying and analyzing complex systems. She received her Ph.D. and M.S. in Computer Science degrees from Colorado State University in 2007 and 2001, respectively. Prior to that, she worked for IBM Korea for more than five years after receiving her B.S. in Computer Engineering and B.S. in Architecture degrees from Seoul National University in Korea. She is a member of the ACM and the IEEE and has served as a member of the program committee of the ACM SAC Software Engineering track since 2008 and as a Co-Chair of the track since 2015. She can be contacted at eunjee_song@baylor.edu. Personal web page: http://cs.baylor.edu/~song/.

Biographical Sketch of Prof. Geunseok Yang

Geunseok Yang is an Assistant Professor in the Department of Computer Engineering & Applied Mathematics at Hankyong National University, Korea. He received his Ph.D. and M.Eng. from the Department of Computer Science, University of Seoul in 2020 and 2015, respectively, and his bachelor degree from the Department of Computer Science and Engineering, Korea University of Technology and Education in 2013. He worked for Seoul Shinmun (Newspaper) Corporation, Munhwa Broadcasting Corporation (MBC), and Kookmin Bank Corporation (KB Bank) for about five years after receiving his M.Eng. His research interests include AI/RL/DL for Software Engineering, Software Mining/Evolution, Blockchain for Software Interoperability. He is a member of the ACM and the IEEE. He can be contacted at gsyang@hknu.ac.kr. Web page: http://selab.hknu.ac.kr.

Program Committee (Tentatively made from 2024 PC, To be finalized later)

To improve the quality of the reviews and encourage a prompt response, we will reduce the number of papers that each Program Committee (PC) member has to review. There will be approximately 50 program committee members for this year, which will significantly improve the effectiveness of the review process. We propose to invite the following distinguished researchers to serve on the program committee for the SE Track. Each of them has made important contributions to several prominent international conferences in software engineering. Many of them also serve on the editorial board of well-known journals. More PC members will be included, if necessary, depending on the number of submissions.

PC Members Served for SAC '24

- Mehmet Aksit, University of Twente, Netherlands
- Arnaud Blouin, Univ Rennes, France
- José Creissac Campos, Universidade do Minho, Portugal
- Alejandra Cechich, Universidad Nacional del Comahue, Argentina
- Chih-Hung Chang, Providence University, Taiwan
- Federico Ciccozzi, Mälardalen University, Sweden
- Travis Desell, Rochester Institute of Technology, USA
- Hyunsook Do, University of North Texas, USA
- Tadashi dohi, Hiroshima University, Japan
- Filomena Ferrucci, University of Salerno, Italy
- Hiroaki Fukuda, Shibaura Institute of Technology, Japan
- Clemens Grelck, Friedrich Schiller University Jena, Germany
- Rubing Huang, Macau University of Science and Technology, China
- Dae-Kyoo Kim, Oakland University, USA
- Herbert Kuchen, University of Münster, Germany
- Horst E. Lichter, RWTH Aachen University, Germany
- Richard Lipka, University of West Bohemia, Czech Republic

- Yi Liu, University of Massachusetts Dartmouth, USA
- Humberto Marques-Neto, Pontifical Catholic University of Minas Gerais, Brazil
- Sandro Morasca, Università degli Studi dell'Insubria, Italy
- Shin Nakajima, National Institute of Informatics, Japan
- Markus Roggenbach, Swansea University, United Kingdom
- José Amancio Macedo Santos, State University of Feira de Santana, Brazil
- Tiberiu Seceleanu, Mälardalen University, Sweden
- Wuwei Shen, Western Michigan University, USA
- Andrew Simpson, University of Oxford, United Kingdom
- Hasan Sozer, Ozyegin University, Turkey
- Gerson Sunye, University of Nantes, France
- Linzhang Wang, Nanjing University, China
- Tewfik Ziadi, Sorbonne University, France