

2025 IEEE/ACM 47th International Conference on Software Engineering: Software Engineering in Society (ICSE-SEIS 2025)

**Ottawa, Ontario, Canada
27 April - 3 May 2025**



**IEEE Catalog Number: CFP25L70-POD
ISBN: 979-8-3315-3708-1**

**Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP25L70-POD
ISBN (Print-On-Demand):	979-8-3315-3708-1
ISBN (Online):	979-8-3315-3707-4
ISSN:	2832-7608

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2025 IEEE/ACM 47th International Conference on Software Engineering: Software Engineering in Society (ICSE-SEIS) **ICSE-SEIS 2025**

Table of Contents

SEIS 2025 Committee	ix
---------------------------	----

Gender, Equity and Diversity

A Socio-Technical Grounded Theory on the Effect of Cognitive Dysfunctions in the Performance of Software Developers with ADHD and Autism	1
<i>Kiev Gama (Federal University of Pernambuco (UFPE), Brazil), Grischa Liebel (Reykjavik University, Iceland), Miguel Goulão (NOVA University Lisbon, Portugal), Aline Lacerda (Federal University of Pernambuco (UFPE), Brazil), and Cristiana Lacerda (Federal University of Pernambuco (UFPE), Brazil)</i>	
Belonging Beyond Code: Queer Software Engineering and Humanities Student Experiences	13
<i>Emily Vorderwülbecke (University of Passau, Germany) and Isabella Graßl (University of Passau, Germany)</i>	
Breaking the Silos: An Actionable Framework for Recruiting Diverse Participants in SE	25
<i>Shandler A. Mason (North Carolina State University, USA), Hank Lenham (North Carolina State University, USA), and Sandeep Kaur Kuttal (North Carolina State University, USA)</i>	
Enhancing Women's Experiences in Software Engineering	37
<i>Júlia Rocha Fortunato (Faculty UnB Gama (FGA). University of Brasilia (UnB). Brasilia, Brazil), Luana Ribeiro Soares (Faculty UnB Gama (FGA). University of Brasilia (UnB), Brazil), Gabriela Silva Alves (Faculty UnB Gama (FGA). University of Brasilia (UnB), Brazil), Edna Dias Canedo (University of Brasilia (UnB), Brazil), and Fabiana Freitas Mendes (Aalto University, Finland)</i>	
Investigating the Developer eXperience of LGBTQIAPN+ People in Agile Teams	43
<i>Edvaldo Wassouf (Federal University of Mato Grosso do Sul, Brazil), Pedro Fukuda (Federal University of Mato Grosso do Sul, Brazil), and Awdren Fontão (Federal University of Mato Grosso do Sul, Brazil)</i>	

There's Nothing to See Here: A Study of Deaf and Hearing Developer Use of Stack Overflow	55
<i>Steve Counsell (Brunel University of London, UK), Giuseppe Destefanis (Brunel University of London, UK), Romyana Neykova (Brunel University of London, UK), Alina Miron (Brunel University of London, UK), Nadine Aburumman (Brunel University of London, UK), and Thomas Shippey (LogicMonitor, UK)</i>	

Human and Social 1

A Bot-Based Approach to Manage Codes of Conduct in Open-Source Projects	59
<i>Sergio Cobos (Universitat Oberta de Catalunya, Spain) and Javier Luis Cánovas Izquierdo (Universitat Oberta de Catalunya, Spain)</i>	
A Collaborative Framework for Cross-Domain Scientific Experiments for Society 5.0	70
<i>Muhammad Mainul Hossain (University of Saskatchewan, Canada), Banani Roy (University of Saskatchewan, Canada), Chanchal Roy (University of Saskatchewan, Canada), and Kevin Schneider (University of Saskatchewan, Canada)</i>	
A First Look at AI Trends in Value-Aligned Software Engineering Publications: Human-LLM Insights	82
<i>Davoud Mougouei (Deakin University, Australia), Ahmad Azarnik (Universiti Teknologi Malaysia, Malaysia), Mahdi Fahmideh (University of Southern Queensland, Australia), Elahe Mougouei (Islamic Azad University Najafabad, Iran), Hoa Khanh Dam (University of Wollongong, Australia), Arif Ali Khan (University of Oulu, Finland), Saima Rafi (Edinburgh Napier University, United Kingdom), Javed Ali Khan (University of Hertfordshire, United Kingdom), and Aakash Ahmad (Lancaster University, Germany)</i>	
From Expectation to Habit: Why Do Software Practitioners Adopt Fairness Toolkits?	94
<i>Gianmario Voria (University of Salerno, Italy), Stefano Lambiase (University of Salerno, Italy), Maria Concetta Schiavone (University of Salerno, Italy), Gemma Catolino (University of Salerno, Italy), and Fabio Palomba (University of Salerno, Italy)</i>	
Not Real or too Soft? On the Challenges of Publishing Interdisciplinary Software Engineering Research	106
<i>Sonja M. Hyrnsalmi (LUT University, Finland), Grischa Liebel (Reykjavik University, Iceland), Ronnie de Souza Santos (University of Calgary, Canada), and Sebastian Baltes (University of Bayreuth, Germany)</i>	
What is Unethical About Software? User Perceptions in the Netherlands	118
<i>Yagil Elias (VU Amsterdam, The Netherlands), Tom P. Humbert (VU Amsterdam, The Netherlands), Lauren Olson (VU Amsterdam, The Netherlands), and Emtizá Guzmán (VU Amsterdam, The Netherlands)</i>	

SE for AI 3

A Reference Model for Empirically Comparing LLMs with Humans	130
<i>Kurt Schneider (Leibniz Universität Hannover, Germany), Farnaz Fotrousi (Chalmers and University of Gothenburg, Sweden), and Rebekka Wohlrab (Chalmers and University of Gothenburg, Sweden; University of Gothenburg, Sweden; Carnegie Mellon University, USA)</i>	

Human and Social 4

Do Developers Adopt Green Architectural Tactics for ML-Enabled Systems? A Mining Software Repository Study	135
<i>Vincenzo De Martino (University of Salerno, Italy), Silverio Martínez-Fernández (Universitat Politècnica de Catalunya, Spain), and Fabio Palomba (University of Salerno, Italy)</i>	

User Experience

Designing a Tool for Evacuation Plan Validation: Multi-Agent Simulations with Persona-Based UI	140
<i>Gennaro Zanfardino (University of L'Aquila, Italy), Antiniscia Di Marco (University of L'Aquila, Italy), and Michele Tucci (University of L'Aquila, Italy)</i>	

Human and Social for AI

Curious, Critical Thinker, Empathetic, and Ethically Responsible: Essential Soft Skills for Data Scientists in Software Engineering	151
<i>Matheus de Moraes Leça (University of Calgary, Canada) and Ronnie de Souza Santos (University of Calgary, Canada)</i>	
Multi-Modal LLM-Based Fully-Automated Training Dataset Generation Software Platform for Mathematics Education	163
<i>Minjoo Kim (Sookmyung Women's University, Korea), Taehyun Kim (Sookmyung Women's University, Korea), Jaehyun Chung (Korea University, Korea), Hyunseok Choi (Korea University, Korea), Seokhyeon Min (Korea University, Korea), Joon-Ho Lim (Tutorus Labs, Korea), and Soohyun Park (Sookmyung Women's University, Korea)</i>	
What Does a Software Engineer Look Like? Exploring Societal Stereotypes in LLMs	173
<i>Muneera Bano (CSIRO's Data61, Australia), Hashini Gunatilake (Monash University, Australia), and Rashina Hoda (Monash University, Australia)</i>	

Poster

Ethical Issues in Video Games: Insights from Reddit Discussions	185
<i>Yeqian Li (Vrije Universiteit Amsterdam, Netherlands) and Kousar Aslam (Vrije Universiteit Amsterdam, Netherlands)</i>	

Strategies to Embed Human Values in Mobile Apps: What do End-Users and Practitioners Think?	197
<i>Rifat Ara Shams (CSIRO's Data61, Australia), Mojtaba Shahin (RMIT University, Australia), Gillian Oliver (Monash University, Australia), Jon Whittle (CSIRO's Data61, Australia), Waqar Hussain (CSIRO's Data61, Australia), Harsha Perera (CSIRO's Data61, Australia), and Arif Nurwidyantoro (Universitas Gadjah Mada, Indonesia)</i>	
Author Index	203