

2025 IEEE/ACM 1st International Workshop on Advancing Static Analysis for Researchers and Industry Practitioners in Software Engineering (STATIC 2025)

**Ottawa, Ontario, Canada
29 April 2025**



**IEEE Catalog Number: CFP250R6-POD
ISBN: 979-8-3315-1463-1**

**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:	CFP250R6-POD
ISBN (Print-On-Demand):	979-8-3315-1463-1
ISBN (Online):	979-8-3315-1462-4

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 1st International Workshop on Advancing Static Analysis for Researchers and Industry Practitioners in Software Engineering (STATIC) **STATIC 2025**

Table of Contents

STATIC 2025

Heros in Action: Analyzing Objective-C Binaries through Decompilation and IFDS	1
<i>Florian Magin (Fraunhofer SIT ATHENE, Germany), Gwendal Patat (Fraunhofer SIT ATHENE, Germany), and Fabian Scherf (Fraunhofer SIT ATHENE, Germany)</i>	
FpGuard: Static-Analysis Guided Domain Exclusions for Robust Floating-Point Error Analysis.....	7
<i>Tanmay Tirpankar (University of Utah, USA), Artem Yadrov (University of Utah, USA), Pavel Panchekha (University of Utah, USA), and Ganesh Gopalakrishnan (University of Utah, USA)</i>	
PySymGym: An Infrastructure to Train AI-Powered Navigation Assistant for Symbolic Execution Engine	13
<i>Anna Chistyakova (St Petersburg State University, Russia), Maxim Nigmatulin (St Petersburg State University, Russia), Ekaterina Shemetova (St Petersburg State University, Russia), Danil Parfenov (St Petersburg State University, Russia), David Akhmedov (St Petersburg State University, Russia), and Semyon Grigorev (St Petersburg State University, Russia)</i>	
Author Index	17