

2023 IEEE/ACM 1st International Workshop on Software Vulnerability (SVM 2023)

**Melbourne, Australia
20 May 2023**



**IEEE Catalog Number: CFP23IZ4-POD
ISBN: 979-8-3503-0191-5**

**Copyright © 2023 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:	CFP23IZ4-POD
ISBN (Print-On-Demand):	979-8-3503-0191-5
ISBN (Online):	979-8-3503-0190-8

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

2023 IEEE/ACM 1st International Workshop on Software Vulnerability (SVM) **SVM 2023**

Table of Contents

2023 IEEE/ACM 1st International Workshop on Software Vulnerability (SVM)

A Static Analysis Platform for Investigating Security Trends in Repositories	1
<i>Tim Sonnekalb (German Aerospace Center (DLR)), Christopher-Tobias Knaust (German Aerospace Center (DLR)), Bernd Gruner (German Aerospace Center (DLR)), Clemens-Alexander Brust (German Aerospace Center (DLR)), Lynn von Kurnatowski (German Aerospace Center (DLR)), Andreas Schreiber (German Aerospace Center (DLR)), Thomas S. Heinze (Cooperative University Gera-Eisenach), and Patrick Mäder (Technische Universität Ilmenau)</i>	
An Empirical Study on Workflows and Security Policies in Popular GitHub Repositories	6
<i>Jessy Ayala (University of California, Irvine) and Joshua Garcia (University of California, Irvine)</i>	
VrT: A CWE-Based Vulnerability Report Tagger Machine Learning Driven Cybersecurity Tool for Vulnerability Classification	10
<i>Fahad Alshaya (Al Imam Mohammad Bin Saud Islamic University, Saudi Arabia), Sultan Alqahtani (Al Imam Mohammad Bin Saud Islamic University, Saudi Arabia), and Yasser Alsamel (Al Imam Mohammad Bin Saud Islamic University, Saudi Arabia)</i>	
Identifying missing relationships of CAPEC attack patterns by transformer models and graph structure	14
<i>Rikuho Miyata (Waseda University, Japan), Hironori Washizaki (Waseda University, Japan), Kensuke Sumoto (Waseda University), Nobukazu Yoshioka (Waseda University), Yoshiaki Fukazawa (Waseda University), and Takao Okubo (Institute of Information Security)</i>	
Author Index	19