

2021 IEEE/ACM International Workshop on Programming and Performance Visualization Tools (ProTools 2021)

**St. Louis, Missouri, USA
14 November 2021**



**IEEE Catalog Number: CFP21W42-POD
ISBN: 978-1-6654-1111-0**

**Copyright © 2021 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:	CFP21W42-POD
ISBN (Print-On-Demand):	978-1-6654-1111-0
ISBN (Online):	978-1-6654-1110-3

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

2021 IEEE/ACM International Workshop on Programming and Performance Visualization Tools (ProTools) **ProTools 2021**

Table of Contents

Message from the ProTools 2021 Workshop Chairs	iv
Workshop Organization	v

Session 1

TFFProf: Profiling Large Taskflow Programs with Modern D3 and C++	1
<i>Tsung-Wei Huang (University of Utah)</i>	
Differential Performance Analysis Workflow for Algorithmic Changes	7
<i>Isabel Thärigen (RWTH Aachen University, Germany), Joachim Protze (RWTH Aachen University, Germany), Fabian Orland (RWTH Aachen University, Germany), and Marc-André Hermanns (RWTH Aachen University, Germany)</i>	

Session 2

Controlling the Runtime Overhead of Python Monitoring with Selective Instrumentation	17
<i>Andreas Gocht-Zech (Technische Universität Dresden, Germany), Alexander Grund (Technische Universität Dresden, Germany), and Robert Schöne (Technische Universität Dresden, Germany)</i>	
Measurement and Analysis of GPU-Accelerated OpenCL Computations on Intel GPUs	26
<i>Aaron Thomas Cherian (Rice University), Keren Zhou (Rice University), Dejan Grubisic (Rice University), Xiaozhu Meng (Rice University), and John Mellor-Crummey (Rice University)</i>	

Author Index	37
--------------------	----