2022 IEEE/ACM Redefining Scalability for Diversely Heterogeneous Architectures Workshop (RSDHA 2022)

Dallas, Texas, USA 13-18 November 2022



IEEE Catalog Number: ISBN:

CFP22BR8-POD 978-1-6654-7569-3

Copyright © 2022 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:
 CFP22BR8-POD

 ISBN (Print-On-Demand):
 978-1-6654-7569-3

 ISBN (Online):
 978-1-6654-7568-6

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



2022 IEEE/ACM Redefining Scalability for Diversely Heterogeneous Architectures Workshop (RSDHA) RSDHA 2022

Table of Contents

Message from the Workshop Organizers iv Workshop Organization v
RSDHA 2022 Technical Papers
DGSM: A GPU-Based Subgraph Isomorphism Framework with DFS Exploration
LaRIS: Targeting Portability and Productivity for LAPACK Codes on Extreme Heterogeneous Systems by using IRIS
Neuromorphic Computing for Scientific Applications
Author Index