

## **CLOUD COMPUTING 2023**

The Fourteenth International Conference on Cloud Computing, GRIDs, and Virtualization

June 26 - 30, 2023

Nice, France

## **CLOUD COMPUTING 2023 Editors**

Andreas Aßmuth, Ostbayerische Technische Hochschule Amberg-Weiden, Germany Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright<sup>©</sup> (2023) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2024)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

## 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 Email: curran@proceedings.com Web: www.proceedings.com

## Table of Contents

Encrypted Container File: Design and Implementation of a Hybrid-Encrypted Multi-Recipient File Structure <i>Tobias J. Bauer and Andreas Assmuth</i>	1
Generation of Distributed Denial of Service Network Data with Phyton and Scapy Stefan Gortz, Sebastian Fischer, and Rudolf Hackenberg	8
Side Channel Monitoring for Fuzz Testing of Future Mobility Systems Philipp Fuxen, Murad Hachani, Jonas Schmidt, Philipp Zaumseil, and Rudolf Hackenberg	15
Security Challenges for Cloud or Fog computing-Based AI Applications Amir Pakmehr, Andreas Assmuth, Christoph P. Neumann, and Gerald Pirkl	21
On the Creation of a Secure Key Enclave via the Use of Memory Isolation in Systems Management Mode James Sutherland, Natalie Coull, and Robert Ferguson	30
FoodFresh: Multi-Chain Design for an Inter-Institutional Food Supply Chain Network Philipp Stangl and Christoph P. Neumann	41
A Survey of Multiple Clouds: Classification, Relationships and Privacy Concerns Reem Al-Saidi and Ziad Kobti	47
Challenges and Solutions in IoT Security: A Cross-Industry Perspective Ibrahim El-Shekeil, Thomas Mullins, Tariq Haji Hassan, Jet Lao, and Xuezeng Yang	57