

# **EMERGING 2022**

The Fourteenth International Conference on Emerging Networks and Systems Intelligence

November 13 - 17, 2022

Valencia, Spain

# **EMERGING 2022 Editors**

Sandra Sendra Compte, Universitat Politecnica de Valencia, Spain

#### 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© (2022) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2023)

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**

Optimal Multi-Tenant Cloud Network Latency for Inter-Device Caching Nader Mir, Pranav S. Paramel, and Sandeep K. Sethumadhavan	1
Calculations of the Packet Loss Ratio in Finite-Buffer Queues  Andrzej Chydzinski and Blazej Adamczyk	7
Improving a Physical Search System that Detects Even Unknown Displaced Objects Using Image Differences Shin Kajihara, Masato Okazaki, Chika Oshima, and Koichi Nakayama	13
Estimation of TCP Congestion Control Algorithms by Deep Recurrent Neural Network Takuya Sawada, Ryo Yamamoto, Satoshi Ohzahata, and Toshihiko Kato	19