

2020 IEEE 45th LCN Symposium on Emerging Topics in Networking (LCN Symposium 2020)

**Sydney, Australia
16 – 19 November 2020**



**IEEE Catalog Number: CFP2025T-POD
ISBN: 978-1-7281-8315-2**

**Copyright © 2020 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:	CFP2025T-POD
ISBN (Print-On-Demand):	978-1-7281-8315-2
ISBN (Online):	978-1-7281-8314-5

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

2020 IEEE 45th Local Computer Networks
Symposium on Emerging Topics in Networking

LCN Symposium 2020

Table of Contents

Message from the General Chair	v
Message from the Symposium Chair	vi
Organizing Committee	vii
Steering Committee	viii
Sponsors and Supporters	ix

IEEE LCN Symposium 2020 papers

Basic Model for Process-Aware Control of Wireless Links in a Flexible Factory	1
Unknown Traffic Identification Based on Deep Adaptation Networks	10
Maginot Lines and Tourniquets: On the Defendability of National Cyberspace	19
Sum-Rate Optimization-Based Access Mode Selection and Resource Allocation for IoT Devices in 5G	31
GAA-GAA Coexistence in the CBRS Band:Performance Evaluation of Approach 3	39
Deep Reinforcement Learning Based Energy-Efficient Task Offloading for Secondary Mobile Edge Systems	48
Guidelines for an Energy Efficient Tuning of the NB-IoT Stack	60
Secrecy Performance of Cooperative NOMA System with Multiple Full-Duplex Relays Against Non-Colluding/Colluding Eavesdroppers	70
On the Impact of Burst Loss for QoE-Based Performance Evaluations for Video Streaming	78

Topology-Aware Path Planning for In-Transit Coverage of Aerial Post-Disaster Communication Assistance Systems	88
Evaluation of Container Overlays for Secure Data Sharing	99
The Impact of Bit Errors on Intra-Session Network Coding with Heterogeneous Packet Lengths	109
Anomaly Detection for Mixed Packet Sequences	120
On the Impact of Geographic Restrictions on Contact Metrics in Opportunistic Networks	131
Online Games Servers Placement in Fog Computing: An Hybrid Bio-Inspired Approach	141
Retrospective Sensing Based on Federated Learning in the IoT	150