

2026 29th Conference on Innovation in Clouds, Internet and Networks (ICIN 2026)

Athens, Greece

30 March - 2 April 2026

IEEE Catalog Number:
ISBN:

CFP2650H-POD
979-8-3315-8383-5



Copyright © 2026, IEEE

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:	CFP2650H-POD
ISBN (Print-On-Demand):	979-8-3315-8383-5
ISBN (Online):	979-8-3315-8382-8
ISSN:	2162-3414

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

TABLE OF CONTENTS

C-Shield: LLM-Enhanced Cybersecurity Platform for Intrusion Detection in Kubernetes Clusters	1
<i>Sarantis Kalafatis, Antonis Villios, Antonis Garyfallou, Nikos Papageorgopoulos, Giannis Ledakis</i>	
SOM-based Continuous XGBoost Approach for DDoS Attack Detection and Mitigation in Edge SDN	4
<i>Shijin Liu, Hiroaki Fukuda, Paul Leger</i>	
SHERPA: Group-aware Resource and Path Discovery for Collaborative Ultra-Low Latency Applications	12
<i>Hendrik Mahrt</i>	
An Interactive Demonstration Platform for AI-Powered Typosquatting Detection and Defense	20
<i>Doğukan Kurnaz, İlknur Köseoğlu Sari, Engin Zeydan</i>	
Bidirectional Trust for Serverless Deployment and Execution in 6G Cloud-Edge Environment	23
<i>Sanjeet Raj Pandey, Yassine Lazreg, Axel Küpper</i>	
Hybrid Stream Processing for Runtime Protection in Remote and Infrastructure-Supported Driving	31
<i>Tarek Stolz, Aliza Katharina Reif, Oscar H. Ramírez-Agudelo, Michael Karl</i>	
Exploring Geographical Interconnections between National Research and Education Networks	36
<i>Takashi Tomine, Ryo Nakamura, Satoshi Uda</i>	
Toward Real-Time RAN Observability in Open-Source 5G Systems	41
<i>Yassir Amami, Ziyad Mabrouk, Chadi Barakat, Thierry Turletti</i>	
A Guide to the Programmable Network Zoo	49
<i>Kalyan Pullela, Hrishikesh B. Acharya</i>	
Enabling Deterministic 6G Ultra-Reliable Low-Latency Through Predictive and Semantic O-RAN Intelligence	54
<i>Antoine Hitayezu, Jui-Tang Wang</i>	
ACOF: An Adaptive Container Orchestration Framework for Cloud-Native Systems	62
<i>Muhammad Usman, Bilal Maqbool, Muhammad Shahid Iqbal</i>	
Surfing the SWAVES: Lifecycle-aware Service Placement in MEC	67
<i>Federico Giarrè, Holger Karl</i>	
LivingBench: An IoT/Edge Platform Benchmark Based on an Environmental Observation Use-Case	72
<i>Haraesh JR, Ammar Kazem, Matthieu Nicolas, François Lemercier, Guillaume Pierre, Christoff Andermann</i>	
Efficient LLM Workload Hosting at the Telco Edge	77
<i>Paul Veitch, Arsham Farshad, Adam Morsman</i>	
An LLM-Driven Framework for Image-Based Mininet Topology Generation with Intelligent Security Response	82
<i>Sheng-Xuan Lin, Cheng-Feng Hung, Chih-Heng Ke</i>	
Edge-Oriented Evaluation of CNN-Based Vehicle Detection on Embedded V2X Platforms	89
<i>Marinelio Chintri, Ioannis Seitoglou, Vasileios Efthymiou, Nikos Kekatos, Sophia Petridou, Stylianos Basagiannis</i>	

A Vision for Intelligent Flow Routing in University Networks Through Digital Twin Integration	94
<i>Reza Poorzare, Oliver P. Waldhorst</i>	
A Multi-Agent AI Approach to Intent-Based Network Configuration	102
<i>Dani Termaat, Marios Avgeris</i>	
FluidStream: Decentralized Tuple Routing for Low-Latency Stream Processing in the Cloud Continuum	109
<i>Thanasis G. Papaioannou</i>	
A Hybrid Nature-Inspired Algorithm for Establishing Reliable Connected Coverage	117
<i>Cecilia Duran, Habib M. Ammari</i>	
Leveraging FPGA-based SmartNICs for Low-latency In-band Network Telemetry	122
<i>Angelos Dimoglis, Luca Cetino, Anestis Dalgkitsis, Chrysa Papagianni, Paola Grosso</i>	
Toward Carbon-Aware UAV Security: Lightweight ML for GPS Spoofing Detection	130
<i>Dimitrios-Evangelos Gkogkos, Panagiotis Papadimitriou, Sophia Petridou</i>	
5G RAN Simulation Enhancement via the Model Context Protocol	138
<i>Dimitrios Brodimas, Dimitrios Kapolos, Alexios Birbas</i>	
Leveraging Digital Twins and Machine Learning for Industrial Network Automation	143
<i>Chiara Grasselli, Chiara Contoli, Franco Callegati</i>	
Detecting DDoS Attacks in SDN Networks Using Federated Learning with Deep Neural Networks	150
<i>Rolph Abraham Yao, Ferdinand Tonguim Guinko</i>	
HOVER: A Mobility-Aware UAV Placement Strategy for Highway V2X Connectivity	158
<i>Abdulahakim Abogharaf, Kshirasagar Naik</i>	
Adaptive Deep Reinforcement Learning for Scalable Time-Sensitive Networking Scheduling Parts of this work have been funded by the Bavarian Government through the Hightech Agenda (HTA).	166
<i>Hamza Chahed, Haifa Boubakri, Andreas Kassler</i>	
Multi-Layer Algorithmic Framework with LLM Integration for Typosquatting and Phishing Domain Analysis	174
<i>Doğukan Kurnaz, İlknur Köseoğlu Sarı, Engin Zeydan</i>	
FRIEND: Federated Learning for Joint Optimization of Multi-RIS Configuration and Eavesdropper Intelligent Detection in B5G Networks	182
<i>Maria Lamprini A. Bartsioka, Ioannis A. Bartsiokas, Anastasios K. Papazafeiropoulos, Maria A. Seimeni</i> <i>Dimitra I. Kaklamani, Iakovos S. Venieris</i>	
Demonstrating Real-Time RAN Observability in Open-Source 5G: Controlled Interference Scenario	190
<i>Yassir Amami, Ziyad Mabrouk, Chadi Barakat, Thierry Turletti</i>	
A Data Management Infrastructure for Reproducible Experimental Research	193
<i>Ziyad Mabrouk, Bohdan Dyshlevyy, Damien Saucez, Panagiotis Hadjidemetriou, Panayiotis Andreou</i>	
TAQM: Guaranteeing Fairness and Minimizing SLA Violations for Self-Managing Datacenters	196
<i>Ahmed Ben Ali, Yann Labit, Benoit Nougnanke</i>	
A Multi-Layer Framework for Adaptive Resource Allocation in Edge Computing: A Hybrid Reinforcement Learning Approach	201
<i>Om Khulbe, Cristina Hava Muntean, Shaguna Gupta</i>	