	Monday				
	Room 217 (Mini Conference)	Room 220 (PhD Workshop)	Room 315 (NDT4IN and IWNC Workshops)	Room 318 (NeSecOr Workshop Sessions)	Room 319 (AnServApp Workshop)
	Spotting the Hook: Leveraging Domain Data for Advanced Phishing Detection		NDT4IN WORKSHOP (9:00 - 12:30)	Workshop introduction	Introduction
9:00-10:30	Big Brother is Watching You: Non-Intrusive ZigBee User Profiling		DTN-Core: Towards a framework for designing and operating digital twin networks	Lateral Movement Identification in Cross-Cloud Deployment	Keynote:
	Improving Fault Device Identification Method using Alarm Clustering Approach		Exploiting The Efficient Data Modeling in Network Digital Twin To Empower Edge- Cloud Continuum	URL Evaluator: Semi-automatic evaluation of suspicious URLs from honeypots	Noura Limam ML for Network & Service Management:
	Analyzing Privacy Implications of Mobile Apps Data Collection across Age Groups		Challenges of Event-based Streaming and Queuing as Data Exchange for Network Digital Twins	Resilmesh project introduction	Experiences, lessons learned, challenges and moving forward.
	Addressing Data Security in IoT: Minimum Sample Size and Denoising Diffusion		Addressing the Scalability of Network Digital Twins: A Network Sampling Approach		Safe RL for Core Network autoscaling
	Models for Improved Malware Detection Per-CCA Queueing		Securing Industrial Systems: A Testbed for Cyber-Defense Evaluation and Data		Improving Real-Time Anomaly Detection using Multiple Instances of Micro-Cluster
	Parameterizing 5G New Radio: A Comparative Measurement Study on Throughput		Collection Real Time Reconstruction of Radio Environment Maps in Indoor Millimeter-Wave Beamforming with Beam Changes	. Keynote: Martin Divis, Dominik Soukup Al-based networks and network management from Clsco under the hood.	Detection Task Completion Time Prediction Scaled by Machine Learning Model Uncertainty
11.00.10.00	and Delay				
11:00-12:30	Efficient Distributed Learning Over Lossy Wireless Networks				Automation of Network Configuration Generation using Large Language Models Generating Commit Messages for Configuration Files in 5G Network Deployment
	Mitigating Measurement Failures in Throughput Performance Forecasting Minimizing Power Consumption under SINR Constraints for Cell-Free Massive MIMO in O-RAN				Using LLMs
12:30-14:00			Lunch		
	Functional Linear Regression for the prediction of streaming video QoE	Quality of Datasets For Network Traffic Analysis	IWNC WORKSHOP (14:00 - 17:50)	Automating Network Perimeter Threat Prevention for Decentralized Network Administration	Uncovering Common Al Challenges Across Industrial Domains in the Transition to Industry 5.0
	IoT Device and State Identification based on Usage Patterns	Evaluation of TCP/IP-based OS fingerprinting methods	Keynote:	Cyber Situational Awareness in Vehicle Security Operations: Holistic Monitoring and a Data Model	-{
	CRDT Web Caching: Enabling Distributed Writes and Fast Cache Consistency for	Categorizing Devices in Large Computer Networks	Roch H. Glitho In-Network Computing for Immersive Applications in 6G: The Case of Holographic Telepresence.	Blockchain-Based Self-Sovereign Identity in 6G Non-Public Networks: Enhanced Security in Industrial Cyber-Physical Systems 5GaaS: DLT and Smart Contract-Based Network Slice Management in a	Evaluating the Robustness of ADVENT on the VeReMi-Extension Dataset
14:00-15:30	REST APIs OSR: Advancing Multi-Hop Routing for LoRaWAN Mesh Networks in Maritime	Anomaly detection for BGP			Link2Link: A Robust Probabilistic Routing Algorithm via Edge-centric Graph
	Scenarios Certainly Uncertain: Demystifying ML Uncertainty for Active Learning in Network	···········	Adaptive 360° Video Streaming over a Federated 6G Network: Experimenting In-	Decentralized Marketplace	Reinforcement Learning
	Monitoring Tasks	Anomaly Detection in ISP Networks	Network Computing for Enhanced User Experience An Ontology-Based Model for In-Network Computing Components Description and		
		Towards reusable models in traffic classification	Discovery Indoor Radio Dot Placement Optimization using UE Positioning and K-Means	Enhancing Adversarial Robustness of Anomaly Detection-Based IDS in OT	Future Directions on Enhanced Positioning Services with Predictions for Smart
	A Practical Network Digital Twin for IGP Weight Optimization	Heterogeneous Cryptomining Detection in ISP Networks	Clustering	Environments	Factories
	Applicability of Hardware-Supported Containers in Low-Latency Networking	Interpretable Threat Detection with Evidential Classifier	The intrinsic convenience of federated learning in malware IoT detection	A Novel Malicious Intent Detection Approach in Intent-Based Enterprise Networks	Green Network Traffic Engineering Using Segment Routing: an Experiment Repo
16:00-17:50	Lowcaf: A Low-Code Protocol Analysis Framework	DDoS Attack Mitigation using DPUs	QoE for Interactive Services in 5G Networks: Data-driven Analysis and ML-based Prediction	Agree to Disagree: Exploring Consensus of XAI Methods for ML-based NIDS	EdgeVerse: Multi-User Virtual Reality via Edge Computing and eBPF
10.00-17.50	Budget-Aware Resource Pricing in Cloud and Edge Computing Continuum	Al-Based 5G Services at the Network Edge: Supporting Mission-Critical 360° Video Encoding and UAV Digital Twins		Machine Learning in Intrusion Detection: An Operational Perspective	
	On-the-fly Table Insertions on Programmable Software Data Planes	SNARK-Based Proof-of-Useful-Work Consensus			
	Coordinated Sampling in SDNs with Dynamic Flow Rates				
	Tuesday - room 217	Wednesday - room 217	Thursday - room 217		
9:00-10:30	Opening ceremony	Poster Pitches 1	Poster Pitches 2		
				cesnet	FACULTY OF INFORMATION
	Keynote:	Keynote:	Keynote: Luciano Paschoal Gaspary		TECHNOLOGY
	Sebastian Garcia Al can help improve network security. From better attacks to better defenses.	Martin Rehak Climbing up the OSI layers and beyond to catch the criminals.	Chasing the Finish Line: The Journey Towards Low Latency, High Throughput AVML for Management Using Programmable Networks.		CTU IN PRAGUE
			Aviac for management using Programmable Networks.		
	Session 1: Traffic Monitoring and Data Analysis	Session 4: Resource Allocation and Optimization in Next-Gen Networks	Session 6: Network Security and Intrusion Detection		
	ResCue: Inferring Fine-Grained Traffic Matrices via Distributed Deep Residual Networks	Optimizing and Managing Wireless Backhaul for Resilient Next-Generation Cellular Networks	Glossy Mirrors: On the Role of Open Resolvers in Reflection and Amplification DDoS Attacks		
11:00-12:30	T-MAW: Online Network Traffic Monitoring and Analysis using Weighted Stochastic Block Models	Multi-Objective Scheduling and Resource Allocation of Kubernetes Replicas Across the Compute Continuum	5GProvGen: 5G Provenance Dataset Generation Framework	L IN	511
	NetGlyph: Representation Learning to generate Network Traffic with Transformers	Centralized vs. Decentralized: A Hybrid Performance Model of the TSN Resource Allocation Protocol	ID-INT: Secure Inter-Domain In-Band Telemetry		2024
12:30-14:00	Lunch	Lunch & Poster session	Lunch & Poster session		
14:00-15:30	Session 2: Wireless Networks and Mobility Management	Session 5: Al and Machine Learning in Network Management	Session 7: Web and Internet Performance		
	Mobility Management for Computation-Intensive Tasks in Cellular Networks with SD- RAN	Reinforcement Learning-Driven Service Placement in 6G Networks across the Compute Continuum	Impact of DANE on Webpage Load Time		
	Throughput-Constrained Antenna Sleep Management for Saving Power	ChronosGuard: A Hierarchical Machine Learning Intrusion Detection System for Modern Clouds	A First Look at User-Installed Residential Proxies From a Network Operator's Perspective	VIEEE	ESoc Wifin
	Signalling Load-aware Conditional Handover in 5G Non-Terrestrial Networks	Generative AI for low-level NETCONF configuration in network management based on YANG models	Data Pipeline System Designs for In-network Learning	Advancing Technology for Humanity	nunications Society
	Session 3: Network Performance and Optimization Techniques Multi-Tenant Programmable Switch Virtualization Leveraging Explicit Resource Sharing		Distinguished Expert Panel Luciano Paschoal Gaspary, Carol Fung,		

Demo Session

Optimizing Data Center Network Performance: A Comprehensive Analysis of Speed esting, Caching, and Network Coding in Software Defined Networking

ynchronization Control-Plane Protocol for Quantum Link Layer

Gabi Dreo Rodosek, Jiří Rott

Closing Ceremony



20th International Conference on Network and Service Management

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Al-Powered Network and Service Management for Tomorrow's Digital World