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Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

NetPA-TS1: *Zero-touch Network and Service Management*

Chair: Fabrice M. Guillemin (Orange Labs, France)

HolistIX: a zero-touch approach for IXPs

Christoff Visser (IIJ Innovation Institute, Japan); Marc Bruyere (IIJ Innovation Institute & The University of Tokyo, Japan); Yuji Sekiya and Seiichi Yamamoto (The University of Tokyo, Japan); Takashi Tomine (National Institute of Information and Communications Technology, Japan)
pp. 1-7

Delay-Sensitive Wireless Content Delivery: An Interpretable Artificial Intelligence Approach

Estefania Coronado (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Blas Gómez (University of Castilla-La Mancha, Spain); José Villalón (UCLM, Spain); Antonio Garrido (University of Castilla-La Mancha, Spain); Muhammad Shuaib Siddiqui (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Roberto Riggio (Università Politecnica Delle Marche, Italy)
pp. 8-13

Network Assurance in Intent-Based Networking Data Centers with Machine Learning Techniques

Xiaoang Zheng (Ecole de Technologie Superieure, Canada); Aris Leivadeas (École de Technologie Supérieure, Canada)
pp. 14-20

MC1: *Network Design & Analytics*

Chairs: Vahid Khalilpour Akram (EGE University, Turkey)

Traffic Engineering with Segment Routing Considering Probabilistic Failures

Ying Tian, Zhiliang Wang, Xia Yin, Xingang Shi, Jiahai Yang and Han Zhang (Tsinghua University, China); Yingya Guo (Hongkong Polytechnic University, Hong Kong); Haijun Geng (Shanxi University, China)
pp. 21-27

A Hierarchical Tree-Based Syslog Clustering Scheme for Network Diagnosis

Sizhe Rao, Minghui Wang, Cuixia Tian, Xin'an Yang and Xiangqiao Ao (H3C, China)
pp. 28-34

Survivable Virtual Network Mapping against Double-Link Failures Based on Virtual Network Capacity Sharing

Emanuele Viadana, Omran Ayoub and Francesco Musumeci (Politecnico di Milano, Italy); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy)
pp. 35-41

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Auction-based federated learning using software-defined networking for resource efficiency

Eunil Seo (Computing Science, Sweden & Umea University, Sweden); Dusit Niyato (Nanyang Technological University, Singapore); Erik Elmroth (Umeå University and Elastisys, Sweden)

pp. 42-48

How are your Apps Doing? QoE Inference and Analysis in Mobile Devices

Nikolas Wehner, Michael Seufert and Joshua Schüler (University of Würzburg, Germany); Pedro Casas (Austrian Institute of Technology (AIT), Austria); Tobias Hoßfeld (University of Würzburg, Germany)

pp. 49-55

NetPA-Keynote: *Why is E2E automation important and which role can ZSM play?*, by Klaus Martiny (ORBIT at DT Group, Germany)

Chair: Amina Boubendir (Orange Labs, France)

MC2: *Wireless Networks*

Chair: Muge Erel-Ozcevik (Celal Bayar University, Turkey)

3D Deployment and User Association of CoMP-assisted multiple Aerial Base Stations for Wireless Network Capacity Enhancement

Yikun Zhao, Fanqin Zhou, Li Wenjing, Yuan Gao, Lei Feng and Peng Yu (Beijing University of Posts and Telecommunications, China)

pp. 56-62

Joint Virtual Machine Embedding and Wireless Data Center Topology Management

Beyza Butun (Middle East Technical University, Turkey); Ertan Onur (Middle East Technical University, Turkey & Stony Brook University, USA)

pp. 63-69

Intelligent and Energy-efficient Distributed Resource Allocation for 5G Cloud Radio Access Networks

Zhengyuan Liu, Peng Yu, Fanqin Zhou, Lei Feng and Li Wenjing (Beijing University of Posts and Telecommunications, China)

pp. 70-76

Max-Min Fair Bandwidth Allocation in Millimeter-Wave Radio Cluster

İdil Z. Alemdar (Middle East Technical University & Turkcell, Turkey); Ertan Onur (Middle East Technical University, Turkey & Stony Brook University, USA)

pp. 77-83

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Evaluation of Cluster Effect in Mobile Opportunistic Networks

Zeynep Vatandas (Hamburg University of Technology, Germany); Koojana Kuladinithi (Hamburg University of Technology & Institute of Communication Networks, Germany); Ulrich Killat (Technical University Hamburg-Harburg, Germany); Andreas Timm-Giel (Hamburg University of Technology, Germany)

pp. 84-90

NetPA-TS2: *Network Programmability with P4*

Chair: Marco Bonola (CNIT, Italy & Axbryd, Italy)

Charon: Load-Aware Load-Balancing in P4

Carmine Rizzi (Ecole Polytechnique, France); Zhiyuan Yao (Ecole Polytechnique & Cisco Systems France, France); Yoann Desmouceaux (Cisco Systems, France); Mark Townsley (Cisco, France); Thomas Heide Clausen (Ecole Polytechnique, France)

pp. 91-97

P4 language extensions for stateful packet processing

Angelo Tulumello (University of Rome Tor Vergata & CNIT, Italy)

pp. 98-103

Dynamic Service Programming with Path Preprocessing

Julian Klaiber, Severin Dellsperger and Laurent Metzger (Eastern Switzerland University of Applied Sciences, Switzerland); Ahmed Abdelsalam (Cisco Systems, Italy); Francois Clad (Cisco System, France)

pp. 104-110

MC3: *5G*

Chair: Özgü Alay (University of Oslo & Simula Metropolitan, Norway)

Optimal Network Design: Edge Server Placement and Link Capacity Assignment for Delay-Constrained Services

Devyani Gupta (Indian Institute of Science, Bangalore, India); Joy Kuri (Indian Institute of Science, India)

pp. 111-117

Network Slicing in 5G Edge Networks with Controlled Slice Redistributions

Samaresh Bera (Indian Institute of Science Bangalore, India); Neelesh B. Mehta (Indian Institute of Science, India)

pp. 118-124

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Self-Optimizing Network Slicing in 5G for Slice Isolation and High Availability

Shwetha Vittal and Antony Franklin A (Indian Institute of Technology Hyderabad, India)

pp. 125-131

On Auto-scaling and Load Balancing for User-plane Gateways in a Softwarized 5G Network

Van Giang Nguyen, Karl-Johan Grinnemo and Javid Taheri (Karlstad University, Sweden); Johan Forsman (Tietoevry, Sweden); Thang Le Duc (TietoEVRY Product Development Services, Sweden); Anna Brunstrom (Karlstad University, Sweden)

pp. 132-138

Efficient Orchestration of Service Chains in Fog Computing for Immersive Media

José Santos (Ghent University - imec, IDLab, Belgium); Jeroen van der Hooft (Ghent University - imec, Belgium); Maria Torres Vega (Ghent University, Belgium); Tim Wauters (Ghent University - imec, Belgium); Bruno Volckaert (Ghent University-imec & IBBT, Belgium); Filip De Turck (Ghent University - imec, Belgium)

pp. 139-145

NetPA-TS3: *Beyond Network Programmability*

Chair: Xi Li (NEC, Germany)

An In-Kernel Solution Based on XDP for 5G UPF: Design, Prototype and Performance Evaluation

Thiago Arruda Navarro do Amaral (University of Campinas, Brazil); Raphael Vicente Rosa (Unicamp & Faculty of Electrical and Computer Engineering, Brazil); David Moura (CTEx & INTRIG - Information & Networking Technologies Research & Innovation Group, Brazil); Christian Esteve Rothenberg (University of Campinas - UNICAMP, Brazil)

pp. 146-152

Token Cell Routing: A New Sub-IP Layer Protocol

Stewart Bryant (Retired & University of Surrey, United Kingdom (Great Britain)); Alexander Clemm (Futurewei Technologies, USA)

pp. 153-159

Programmable Data Planes as the Next Frontier for Networked Robotics Security: A ROS Use Case

Diego Rossi Mafioletti (Federal University of Espírito Santo, Brazil); Ricardo Mello (Universidade Federal do Espírito Santo, Brazil); Marco Ruffini (CONNECT, Trinity College Dublin, Ireland); Valerio Frascolla (Intel Deutschland Gmbh, Germany); Magnos Martinello (Federal University of Espirito Santo, Brazil); Moises R. N. Ribeiro (Federal Universty of Espirito Santo, Brazil)

pp. 160-165

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

NetPA-Panel: *On the challenges of network programmability and automation under resilience and sustainability stakes*

Chair: Amina Boubendir (Orange Labs, France)

MC4: *Security and Privacy*

Chair: Enis Karaarslan (Muğla Sıtkı Koçman University, Turkey)

Anomaly Detection of ICS Communication Using Statistical Models

Ivana Burgetová (Brno University of Technology & Faculty of Information Technology, Czech Republic); Petr Matoušek and Ondrej Rysavy (Brno University of Technology, Czech Republic)
pp. 166-172

Assessing the limits of privacy and data usage for web browsing analytics

Daniel Perdices (Universidad Autónoma de Madrid, Spain); Jorge E. López de Vergara (Universidad Autónoma de Madrid (UAM) & Naudit High Performance Computing and Networking, Spain); Ivan Gonzalez (Universidad Autónoma de Madrid, Spain)
pp. 173-179

An Ensemble Learning-Based Architecture for Security Detection in IoT Infrastructures

Adrien Hemmer (INRIA - University of Lorraine, France); Mohamed Abderrahim (Inria, France); Remi Badonnel (TELECOM Nancy - LORIA/INRIA, France); Isabelle Chrisment (LORIA-TELECOM Nancy, Université de Lorraine, France)
pp. 180-186

Link Latency Attack in Software-Defined Networks

Sanaz Soltani and Mohammad Shojafar (University of Surrey, United Kingdom (Great Britain)); Habib Mostafaei (Technische Universität Berlin, Germany); Zahra Pooranian and Rahim Tafazolli (University of Surrey, United Kingdom (Great Britain))
pp. 187-193

On Detection of Manipulative Cognitive Functions in Cognitive Autonomous Networks

Anubhab Banerjee (Technical University of Munich & Nokia Bell Labs, Germany); Stephen S. Mwanje (Nokia Bell Labs, Germany); Georg Carle (Technische Universität München, Germany)
pp. 194-200

Figure of Merit for a Multi-Generation Network

Darren A Ramsook (University of The West Indies, Trinidad and Tobago); Daniel Mahatoo (Telecommunications Services of Trinidad & Tobago, Trinidad and Tobago); Patrick Hosein (The University of the West Indies, Trinidad and Tobago)

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Egemen Sarikaya (Middle East Technical University, Turkey); Ertan Onur (Middle East Technical University, Turkey & Stony Brook University, USA)

pp. 274-282

Using 5G QoS Mechanisms to Achieve QoE-Aware Resource Allocation

Marcin Bosk (Technical University of Munich, Germany); Marija Gajić (Norwegian University of Science and Technology, Norway); Susanna Schwarzmann (TU Berlin, Germany); Stanislav Lange (NTNU, Norway); Riccardo Trivisonno and Clarissa Cassales Marquezan (Huawei Technologies, Germany); Thomas Zinner (NTNU, Norway)

pp. 283-291

Reoptimizing Network Slice Embedding on EON-enabled Transport Networks

Sepehr Taeb (University of Waterloo, Canada); Nashid Shahriar (University of Regina, Canada); Shihabur R. Chowdhury (Huawei Research Canada, Canada); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy); Raouf Boutaba (University of Waterloo, Canada); Jeebak Mitra and Mahdi Hemmati (Huawei Technologies Canada, Canada)

pp. 292-300

Keynote #3: *From managing networks to programming networks: Moving beyond the ASN.1 era*, by Henning Schulzrinne (Columbia University, USA)

Chair: Rolf Stadler (KTH Royal Institute of Technology, Sweden)

TS3: *Edge*

Chair: Stefano Secci (Cnam, France)

EdgeDQN: Multiple SFC Placement in Edge Computing Environment

Suman Pandey (Pohang Univerisity of Science and Technology, Korea (South)); Tu Van Nguyen (POSTECH, Korea (South)); Jae-Hyoung Yoo (Pohang University of Science and Technology, Korea (South)); James Won-Ki Hong (POSTECH, Korea (South))

pp. 301-309

Cost-Efficient Dynamic Service Function Chain Embedding in Edge Clouds

Weihan Chen, Zhiliang Wang, Han Zhang, Xia Yin and Xingang Shi (Tsinghua University, China)

pp. 310-318

SDN/NFV based Secure SCMA design in SDR

Muge Erel-Ozcevik (Celal Bayar University, Turkey); Ferdi Tekçe (Andasis Company, Turkey)

pp. 319-325

PS3: *ML & AI*

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Chair: Kazuhiko Kinoshita (Tokushima University, Japan)

Impact of Retransmission on VoWiFi Cell Capacity Estimation using IEEE 802.11ax WiFi Standard

Ayes Chinmay and Hemanta Kumar Pati (IIIT Bhubaneswar, India)

pp. 326-329

On-demand network bandwidth reservation combining machine learning and linear programming

Kouichi Genda (Nihon University, Japan)

pp. 330-334

Proactive Live Migration for Virtual Network Functions using Machine Learning

Seyeon Jeong (Pohang University of Science and Technology, Korea (South)); Tu Van Nguyen (POSTECH, Korea (South)); Jae-Hyoung Yoo (Pohang University of Science and Technology, Korea (South)); James Won-Ki Hong (POSTECH, Korea (South))

pp. 335-339

Artificial intelligence and big data driven IS security management solution with applications in higher education organizations

Vladislavs Minkevics and Janis Kampars (Riga Technical University, Latvia)

pp. 340-344

Novel HTTPS classifier driven by packet bursts, flows, and machine learning

Zdena Tropkova (FIT CTU, Czech Republic); Karel Hynek (CESNET, Czech Republic); Tomas Cejka (CESNET z. s. p. o., Czech Republic)

pp. 345-349

IoT-based Access Management Supported by AI and Blockchains

Eryk Schiller and Elfat Esati (University of Zurich, Switzerland); Burkhard Stiller (University of Zürich, Switzerland)

pp. 350-354

PS4: *Network Management*

Chair: Ertan Onur (Middle East Technical University, Turkey & Stony Brook University, USA)

countBF: A General-purpose High Accuracy and Space Efficient Counting Bloom Filter

Sabuzima Nayak (National Institute of Technology Silchar, India); Ripon Patgiri (National Insitute of Technology Silchar, India)

pp. 355-359

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Session-persistent Load Balancing for Clustered Web Servers without Acting as a Reverse-proxy

S. Mohammad Hosseini and Amir Hossein Jahangir (Sharif University of Technology, Iran); Sina Daraby (Sharif University of Technology & IPM, Iran)

pp. 360-364

NUFTCP: Towards Smooth Network Updates in Software-Defined Datacenter Networks

Abdul Basit Dogar and Yiran Zhang (Tsinghua University, China)

pp. 365-369

Investigating Inter-NF Dependencies in Cloud-Native 5G Core Networks

Endri Goshi (Technische Universität München, Germany); Michael Jarschel, Rastin Pries and Mu He (Nokia, Germany); Wolfgang Kellerer (Technische Universität München, Germany)

pp. 370-374

Automation of modular and programmable control and data plane SDN networks

Eder Ollora Zaballa (Technical University of Denmark, Denmark); David Franco and Eduardo Jacob (University of the Basque Country, Spain); Marivi Higuero (University of the Basque Country & Faculty of Engineering at Bilbao, Spain); Michael S. Berger (Technical University of Denmark, Denmark)

pp. 375-379

An Intent-Driven Orchestration of Cognitive Autonomous Networks for RAN management

Anubhab Banerjee (Technical University of Munich & Nokia Bell Labs, Germany); Stephen S. Mwanje (Nokia Bell Labs, Germany); Georg Carle (Technische Universität München, Germany)

pp. 380-384

DS1: *IoT Networking, Network Telemetry and Analytics*

Chair: Cihat Cetinkaya (Mugla Sitki Kocman University, Turkey)

LoRaPlan: A Software to Evaluate Gateway Placement in LoRaWAN

Frank Loh, Noah Mehling, Florian Metzger and Tobias Hoßfeld (University of Würzburg, Germany); David R. Hock (Infosim GmbH & Co. KG, Germany)

pp. 385-387

IEEE 802.11ah (HaLow) Dongle for Simplified IoT Wireless Networking

Min-Cheol Kim and Young-Tak Kim (Yeungnam University, Korea (South))

pp. 388-390

An experimentation environment for SDN-based autonomous vehicles in smart cities

Athanasios Papadakis, Tryfon Theodorou, Lefteris Mamatas and Sophia Petridou (University of Macedonia, Greece)

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

pp. 391-393

Cloud Native Data Platform for Network Telemetry and Analytics

Daniel Tovarňák and Matúš Raček (Masaryk University, Czech Republic); Petr Velan (Masaryk University & CESNET z. s. p. o., Czech Republic)

pp. 394-396

PS5: *Resilience*

Chair: Remi Badonnel (TELECOM Nancy - LORIA/INRIA, France)

Optimizing primary and backup SDN controllers' placement resilient to node-targeted attacks

Mariusz Mycek, Michal Pióro and Artur Tomaszewski (Warsaw University of Technology, Poland); Amaro F. de Sousa (Institute of Telecommunications, University of Aveiro, Portugal)

pp. 397-401

Proactive Detection for Countermeasures on Port Scanning based Attacks

Evgeny Sagatov (Samara National Research University & Internet TV Ltd., Russia); Samara Mayhoub (Samara National Research University, Russia); Andrei M. Sukhov (HSE University, Russia); Flavio Esposito (Saint Louis University, USA); Prasad Calyam (University of Missouri-Columbia, USA)

pp. 402-406

A novel unified handover Algorithm for LTE-A

Sunil Hebbur Srikantamurthy (TU Chemnitz, Germany); Andreas Baumgartner (Chemnitz University of Technology & Chair of Communication Networks, Germany)

pp. 407-411

EdgeEcho: An Architecture for Echocardiology at the Edge

Aman Khalid (St. Louis University, USA); Flavio Esposito (Saint Louis University, USA); Alessio Sacco (Politecnico di Torino, Italy); Steven Smart (Saint Louis University, USA)

pp. 412-416

PS6: *Algorithms*

Chair: Carol J Fung (Virginia Commonwealth University, USA)

Evaluating Urban Network Activity Hotspots through Granular Cluster Analysis of Spatio-Temporal Data

Jane Frances Pajo (Telenor Research, Norway); George Kousiouris (Harokopio University of Athens, Greece); Dimosthenis Kyriazis (University of Piraeus, Greece); Roberto Bruschi (CNIT, Italy); Franco R. Davoli (University of Genoa & National Inter-University Consortium for

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Telecommunications (CNIT), Italy)

pp. 417-421

A Greedy Algorithm for Minimum Cut into Bounded Sets Problem

Onur Ugurlu (Izmir Bakircay University, Turkey); Vahid Akram (EGE University, Turkey); Deniz Tursel Eliiyi (Izmir Bakircay University, Turkey)

pp. 422-426

Fault-Tolerant 1-bit Representation for DistributedInference Tasks in Wireless IoT

Mostafa Hussien (ETS, Canada); Kim Khoa Nguyen (University of Quebec, Canada); Mohamed Cheriet (Ecole de technologie superieure (University of Quebec), Canada)

pp. 427-431

Optimized Transfer Learning: Application for Wireless Channel Selection

Mohammad Askarizadeh (Ecole de Technologie Supérieure, Canada); Mostafa Hussien (ETS, Canada); Masoumeh Zare (University of Montreal, Canada); Kim Khoa Nguyen (University of Quebec, Canada)

pp. 432-436

TS4: *Orchestration*

Chair: Amina Boubendir (Orange Labs, France)

Inferring Software Composition and Credentials of Embedded Devices from Partial Knowledge

Pierre-Marie Junges (University of Lorraine, France); Jérôme François (INRIA Nancy Grand Est, France); Olivier Festor (INRIA Nancy - Grand Est, France)

pp. 437-445

Obstacle-Aware and Energy-Efficient Multi-Drone Coordination and Networking for Disaster Response

Chengyi Qu, Rounak Singh and Alicia Esquivel Morel (University of Missouri-Columbia, USA); Francesco Betti Sorbelli (University of Perugia, Italy); Prasad Calyam (University of Missouri-Columbia, USA); Sajal K. Das (Missouri University of Science and Technology, USA)

pp. 446-454

Automating Reliable and Fault-Tolerant Design of LoRa-based IoT Networks

Xiaofan Yu and Weihong Xu (University of California San Diego, USA); Ludmila Cherkasova (ARM Research, USA); Tajana Simunic Rosing (University of California, San Diego, USA)

pp. 455-463

Keynote #4: *Towards the era of modularization*, by Markus Gruber (Nokia - Bell Labs,

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Germany)

Chair: Noura Limam (University of Waterloo, Canada)

TS5: *Network Monitoring*

Chair: Mohamed Faten Zhani (École de Technologie Supérieure (ÉTS Montreal), Canada)

Performance Analysis of Anomaly Detection Methods for Application System on Kubernetes with Auto-scaling and Self-healing

Yoichi Matsuo and Daisuke Ikegami (NTT, Japan)

pp. 464-472

IntStream: An Intent-driven Streaming Network Telemetry Framework

Xin Cheng, Zhiliang Wang, Shize Zhang, Xin He and Jiahai Yang (Tsinghua University, China)

pp. 473-481

Network Problem Diagnostics using Typographic Error Correction

Martin Holkovic, Michal Bohus and Ondrej Rysavy (Brno University of Technology, Czech Republic)

pp. 482-490

TS6: *Security*

Chair: Guillaume Doyen (IMT Atlantique, France)

Analyzing and Assessing Pollution Attacks on Bloom Filters: Some Filters are More Vulnerable than Others

Pedro Reviriego (University Carlos III of Madrid, Spain); Ori Rottenstreich (Technion - Israel Institute of Technology, Israel); Shanshan Liu and Fabrizio Lombardi (Northeastern University, USA)

pp. 491-499

ANYway: Measuring the Amplification DDoS Potential of Domains

Olivier van der Toorn (University of Twente, The Netherlands); Johannes Krupp (CISPA Helmholtz Center for Information Security, Germany); Mattijs Jonker (University of Twente, The Netherlands); Roland van Rijswijk-Deij (University of Twente & NLnet Labs, The Netherlands); Christian Rossow (CISPA Helmholtz Center for Information Security, Germany); Anna Sperotto (Twente University, The Netherlands)

pp. 500-508

Learning Intrusion Prevention Policies through Optimal Stopping

Kim Hammar and Rolf Stadler (KTH Royal Institute of Technology, Sweden)

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

pp. 509-517

DS2: *5G Networking & AI/ML for Networking*
Chair: Young-Tak Kim (Yeungnam University, Korea (South))

A compact 5G Non-Public Network
Daniel Ficzere (Budapest University of Technology and Economics, Hungary); Gabor Soos (Budapest University of Technology and Economics & Magyar Telekom Nyrt, Hungary); Pál Varga (Budapest University of Technology and Economics, Hungary)
pp. 518-520

A Zero Touch Emulation Framework for Network Slicing Management in a 5G Core Testbed
Shwetha Vittal (Indian Institute of Technology Hyderabad, India); Sourav Sarkar (Indian Institute of Technology (IIT Hyderabad), India); Prashanth P S and Antony Franklin A (Indian Institute of Technology Hyderabad, India)
pp. 521-523

DRL-based Slice Placement under Realistic Network Load Conditions
José Jurandir Alves Esteves (Orange Labs & Sorbonne Université, France); Amina Boubendir and Fabrice M. Guillemin (Orange Labs, France); Pierre Sens (Université de Paris 6, France)
pp. 524-526

Online Feature Selection for Low-overhead Learning in Networked Systems
Xiaoxuan Wang and Forough Shahab Samani (KTH Royal Institute of Technology, Sweden); Andreas Johnsson (Ericsson Research, Sweden); Rolf Stadler (KTH Royal Institute of Technology, Sweden)
pp. 527-529

Keynote #5: *Revitalizing Network and Service Management with Programmable Data Planes: Progress, Challenges, and Opportunities*, **by Luciano Gaspary (Federal University of Rio Grande do Sul, Brazil)**
Chair: Noura Limam (University of Waterloo, Canada)

DEP: *Management and Operational Challenges for the Roaring Twenties*
Chairs: Alexander Clemm (Futurewei Technologies, USA), Filip De Turck (Ghent University - imec, Belgium)

Closing: *Closing Session*
Chairs: Prosper Chemouil (Cnam, France), Stuart Clayman (University College London (UCL),

Tutorial 1: **Cancelled!!**

HiPNet-Opening: *Welcome Introduction*

Chairs: Guillaume Doyen (IMT Atlantique, France), Bertrand Mathieu (Orange Innovation, France)

HiPNet-TS1: *Testing & Measuring*

Chair: Stewart Bryant (& University of Surrey, United Kingdom (Great Britain))

EnGINE: Developing a Flexible Research Infrastructure for Reliable and Scalable Intra-Vehicular TSN Networks

Filip Rezabek, Marcin Bosk, Thomas Paul, Kilian Holzinger and Sebastian Gallenmüller (Technical University of Munich, Germany); Angela Gonzalez (Huawei Technologies Duesseldorf Gmbh, Germany); Abdoul Kane (Huawei Technologies Düsseldorf GmbH, Germany); Francesc Fons and Haigang Zhang (Huawei Technologies Duesseldorf Gmbh, Germany); Georg Carle and Jörg Ott (Technical University of Munich, Germany)

pp. 530-536

Ducked Tails: Trimming the Tail Latency of(f) Packet Processing Systems

Sebastian Gallenmüller, Florian Wiedner, Johannes Naab and Georg Carle (Technical University of Munich, Germany)

pp. 537-543

Assessing the Threats Targeting Low Latency Traffic: the Case of L4S

Marius Letourneau and Boris N'Djore (Troyes University of Technology, France); Guillaume Doyen (IMT Atlantique, France); Bertrand Mathieu (Orange Innovation, France); Rémi Cogranne (Troyes University of Technology - ICD - LM2S - UMR STMR CNRS, France); Huu Nghia Nguyen (Montimage, France)

pp. 544-550

HiPNet-TS2: *Applications Behavior*

Chair: Toerless Eckert (Futurewei USA, USA)

An Analysis of Cloud Gaming Platforms Behavior under Different Network Constraints

Philippe Graff (Universite de Lorraine, CNRS, Inria, LORIA, France); Xavier Marchal (Centre National De La Recherche Scientifique (CNRS), France); Thibault Cholez (Universite de Lorraine,

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

CNRS, Inria, LORIA, France); Stephane Tuffin and Bertrand Mathieu (Orange Innovation, France); Olivier Festor (INRIA Nancy - Grand Est, France)

pp. 551-557

Machine-Learning Based Prediction of Next HTTP Request Arrival Time in Adaptive Video Streaming

Andrea Pimpinella and Alessandro E. C. Redondi (Politecnico di Milano, Italy); Frank Loh and Michael Seufert (University of Würzburg, Germany)

pp. 558-564

Tutorial 2: *Intelligent Behavioral Fingerprinting – From Theory to Practice –*, **by Alberto Huertas, Pedro M. Sánchez, Muriel Franco, Bruno Rodrigues, Gérôme Bovet, Gregorio Martínez, Burkhard Stiller**

Chair: Özgü Alay (University of Oslo & Simula Metropolitan, Norway)

HiPNet-Keynote: *Experienced Deep Learning and Control for Ultra Reliable Low Latency Communications*, **by Walid Saad (Virginia Tech, USA)**

Chair: Christian Grasso (University of Catania, Italy)

HiPNet-TS3: *Latency and Scheduling Algorithms*

Chair: Uma S Chunduri (Intel Corporation, USA)

Asynchronous Time-Aware Shaper for Time-Sensitive Networking

Miklós Máté, Csaba Simon and Markosz Maliosz (Budapest University of Technology and Economics, Hungary)

pp. 565-571

Network Slicing for Deterministic Latency

Sébastien Martin (Huawei, France); Paolo Medagliani (Huawei Technologies Co. Ltd., France); Jeremie Leguay (Huawei Technologies, France Research Center, France)

pp. 572-577

gLBF: Per-Flow Stateless Packet Forwarding with Guaranteed Latency and Near-Synchronous Jitter

Toerless Eckert (Futurewei USA, USA); Alexander Clemm (Futurewei Technologies, USA); Stewart Bryant (Retired & University of Surrey, United Kingdom (Great Britain))

pp.578-584

HiPNet-Panel: *Towards Implementing High-Precision Networking*

17th International Conference on Network and Service Management
Izmir, Turkey // 25-29 October 2021 // Virtual
Smart Management for Future Networks and Services

Chair: Alexander Clemm (Futurewei Technologies, USA)

HiPNet-Closing: *Wrap-up*

Chairs: Raouf Boutaba (University of Waterloo, Canada), Alexander Clemm (Futurewei Technologies, USA)