

IFIP Networking 2018 - Program at a Glance
Zürich, Switzerland, at the Swissôtel, Zürich-Oerlikon

| Time | Monday May 14, 2018 | Time | Tuesday May 15, 2018 | Time | Wednesday May 16, 2018 |
|-------|---|-------|--|-------|--|
| 8.15 | Registration | 8.15 | Registration | 8.15 | Registration |
| 9.00 | Welcome: General Chair, Department's Dean, TPC Co-chairs | 9.00 | Keynote II Flexibility Matters: On the Design and Evaluation of Softwarized Networks | 9.00 | Keynote III Artificial Intelligence in Network Operations and Management |
| 9.30 | Keynote I Blockchain for Cyber Physical Systems | 10.00 | Coffee Break | 10.00 | Panel Security and Privacy in the Internet of Things |
| 10.30 | Coffee Break | 10.30 | Session 4A SDN Architectures | 10.30 | Coffee Break and Demonstration and Poster Session |
| 11.00 | Session 1A Security and Resilience | | Session 4B 5G Communications | 11.00 | |
| | Session 1B Service Function Chaining | 12.10 | Lunch Break | 12.10 | Lunch Break |
| 12.40 | Lunch Break | 13.40 | Session 5A Named Data Networking | 13.40 | Session 7A Network Models and Algorithms |
| 13.40 | Session 2A Measurements and Analysis | | Session 5B Wireless and Mobile Networks | | Session 7B Content Distribution |
| | Session 2B Congestion Control | 15.20 | Coffee Break | 15.20 | Coffee Break |
| 15.20 | Coffee Break | 15.50 | Session 6A Data Center and Overlay Networks | 15.50 | Session 8A Short Presentation Papers I |
| 15.50 | Session 3A Traffic Engineering | | Session 6B Virtualization and Resource Sharing | | Session 8B Short Presentation Papers II |
| | Session 3B Multipath Communications | 17.30 | End of day | 16.50 | End of day |
| 17.30 | Travel to Reception and Social Event | | | | |
| 18.15 | Reception | | | | |
| 19.00 | Social Event | | | | |
| 22.00 | End of day | | | | |

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| Time | Monday May 14, 2018 | |
| 8.15 | Registration | |
| 9.00 | Welcome: General Chair, Department's Dean, TPC Co-chairs | |
| 9.30 | Keynote I - Blockchain for Cyber Physical Systems | |
| 10.30 | Coffee Break | |
| 11.00 | Session 1A - Security and Resilience | Session 1B - Service Function Chaining |
| | <p>Rasch analysis of HTTPS reachability <i>George Geoffrey Michaelson (Asia Pacific Network Information Centre, Australia); Matthew Roughan and Jonathan Tuke (University of Adelaide, Australia); Matt Wand (University of Technology Sydney, Australia); Randy Bush (Internet Initiative Japan, Japan)</i></p> <p>PathFinder: Capturing DDoS Traffic Footprints on the Internet <i>Lumin Shi, Mingwei Zhang and Jun Li (University of Oregon, USA); Peter Reiher (UCLA, USA)</i></p> <p>CellPAD: Detecting Performance Anomalies in Cellular Networks via Regression Analysis <i>Jun Wu (Tsinghua University, P.R. China); Patrick Pak-Ching Lee (The Chinese University of Hong Kong, Hong Kong); Qi Li (Tsinghua University, P.R. China); Lujia Pan and Jianfeng Zhang (Huawei Research, P.R. China)</i></p> <p>An M:N Shared Regenerator Protection Scheme in Translucent WDM Networks <i>Elias A. Doumith (Antonine University, Lebanon); Sawsan Al Zahr (Telecom ParisTech, France)</i></p> | <p>SRv6Pipes: enabling in-network bytestream functions <i>Fabien Duchene (Université Catholique de Louvain, Belgium); David Lebrun (UCLouvain, Belgium); Olivier Bonaventure (Université catholique de Louvain, Belgium)</i></p> <p>SERA: SEgment Routing Aware Firewall for Service Function Chaining scenarios <i>Ahmed Abdelsalam (Gran Sasso Science Institute, Italy); Stefano Salsano (University of Rome Tor Vergata, Italy); Francois Clad (Cisco System, France); Pablo Camarillo (Cisco System, Spain); Clarence Filsfils (Cisco Systems, Inc., Belgium)</i></p> <p>Charting the Complexity Landscape of Virtual Network Embeddings <i>Matthias Rost (TU Berlin, Germany); Stefan Schmid (University of Vienna, Austria)</i></p> <p>Breaking Service Function Chains with Khaleesi <i>Sara Ayoubi, Shihabur Rahman Chowdhury and Raouf Boutaba (University of Waterloo, Canada)</i></p> |
| 12.40 | Lunch Break | |
| 13.40 | Session 2A - Measurements and Analysis | Session 2B - Congestion Control |
| | <p>Factors Affecting Performance of Web Flows in Cellular Networks <i>Ermias Andargie Walelgne (Aalto University, Finland); Setälä Kim (Elisa Oyj, Finland); Vaibhav Bajpai (Technische Universität München, Germany); Stefan Neumeier (TU Munich, Germany); Jukka M J Manner (Aalto University, Finland); Jörg Ott (Technische Universität München, Germany)</i></p> <p>Measurement and Analysis of the Reviews in Airbnb <i>Qian Zhou and Yang Chen (Fudan University, P.R. China); Chuanhao Ma (University of Virginia, USA); Fei Li (Fudan University, P.R. China); Yu Xiao (Aalto University, Finland); Xin Wang (Fudan University, P.R. China); Xiaoming Fu (University of Goettingen, Germany)</i></p> <p>Wrinkles in Time: Detecting Internet-wide Events via NTP <i>Meenakshi Syamkumar (University of Wisconsin-Madison, USA); Sathiya Kumaran Mani (University of Wisconsin - Madison, USA); Ramakrishnan Durairajan (University of Wisconsin-Madison, USA); Paul Barford (University of Wisconsin - Madison, USA); Joel Sommers (Colgate University, USA)</i></p> <p>State Acquisition in Computer Networks <i>Ruairí de Fréin (Dublin Institute of Technology, Ireland)</i></p> | <p>Towards a Deeper Understanding of TCP BBR Congestion Control <i>Dominik Scholz and Benedikt Jaeger (Technical University of Munich, Germany); Lukas Schwaighofer (Technische Universität München, Germany); Daniel Raumer and Fabien Geyer (Technical University of Munich, Germany); Georg Carle (Technische Universität München, Germany)</i></p> <p>Cellular Controlled Delay TCP (C2TCP) <i>Soheil Abbasloo, Tong Li and Yang Xu (New York University, USA); H. Jonathan Chao (NYU Tandon School of Engineering, USA)</i></p> <p>The Virtue of Gentleness: Improving Connection Response Times with SYN Priority Active Queue Management <i>Tristan Braud (The Hong Kong University of Science and Technology, France); Martin Heusse (Grenoble Informatics Laboratory & Grenoble INP, France); Andrzej Duda (Grenoble Institute of Technology, France)</i></p> <p>Policy-Oriented AQM Steering <i>Roland Bless and Mario Hock (Karlsruhe Institute of Technology (KIT), Germany); Martina Zitterbart (KIT, Germany)</i></p> |
| 15.20 | Coffee Break | |
| 15.50 | Session 3A - Traffic Engineering | Session 3B - Multipath Communication |
| | <p>Adaptive Robust Traffic Engineering in Software Defined Networks <i>Davide Sanvito, Ilario Filippini and Antonio Capone (Politecnico di Milano, Italy); Stefano Paris (Huawei Technologies Co. Ltd. & Université Paris Descartes, France); Jeremie Leguay (Huawei Technologies, France Research Center, France)</i></p> <p>An Online Power-Aware Routing in SDN with Congestion-Avoidance Traffic Reallocation <i>Adriana Fernández-Fernández, Cristina Cervelló-Pastor and Leonardo Ochoa-Aday (Universitat Politècnica de Catalunya, Spain); Paola Grosso (University of Amsterdam, The Netherlands)</i></p> <p>Proactive Rerouting in Network Overlays <i>Reuven Cohen, Yuval Dagan and Gabi Nakibly (Technion, Israel)</i></p> <p>SWIFT: Bringing SDN Based Flow Management to Commodity Wi-Fi Access Points <i>Seppo Hätönen, Petri Savolainen and Ashwin Rao (University of Helsinki, Finland); Hannu Flinck (Nokia Bell Labs, Finland); Sasu Tarkoma (University of Helsinki, Finland)</i></p> | <p>Multipath IP Routing on End Devices: Motivation, Design, and Performance <i>Liyang Sun, Guibin Tian, Guanyu Zhu and Yong Liu (New York University, USA); Hang Shi and David Dai (Huawei, USA)</i></p> <p>MultiPath TCP Storage Covert Channels <i>Mohammad Javad Shamani (University of New South Wales, Australia); Guillaume Jourjon (Data61-CSIRO, Australia); Aruna Seneviratne (UNSW Australia, Australia)</i></p> <p>QAware: A Cross-Layer Approach to MPTCP Scheduling <i>Tanya Shreedhar (Indraprastha Institute of Information Technology (IIIT) Delhi, India); Nitinder Mohan (University of Helsinki, Finland); Sanjit K Kaul (IIIT Delhi, India); Jussi Kangasharju (University of Helsinki, Finland)</i></p> |
| 17.30 | Travel to Reception and Social Event | |
| 18.00 | Reception | |
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| 22.00 | End of Day | |

| Time | Tuesday May 15, 2018 | |
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| 8.15 | Registration | |
| 9.00 | Keynote II - Flexibility Matters: On the Design and Evaluation of Softwarized Networks | |
| 10.00 | Coffee Break | |
| 10.30 | Session 4A - SDN Architectures | Session 4B - 5G Communications |
| | <p>The effect of network topology on the control traffic in distributed SDN <i>Viktoria Fodor (KTH, Sweden); Muhammad Zeshan Naseer (KTH Royal Institute of Technology Stockholm Sweden, Pakistan)</i></p> <p>HARMLESS: Cost-Effective Transitioning to SDN for Small Enterprises <i>Levente Csikor (University of Glasgow, UK), Laszlo Toka (Budapest University of Technology and Economics, Hungary), Márk Szalay (Budapest University of Technology and Economics & BME TMIT, Hungary), Gergely Pongrácz (Ericsson Research, Hungary), Dimitrios P. Pezaros (University of Glasgow, UK), Gábor Rétvári (Budapest University of Technology and Economics, Hungary)</i></p> <p>I DPID It My Way! A Covert Timing Channel in Software-Defined Networks <i>Robert Krösche and Kashyap Thimmaraju (TU Berlin, Germany); Liron Schiff (Tel Aviv University, Israel); Stefan Schmid (University of Vienna, Austria)</i></p> <p>It's About Time: Analyzing Flow Table Update Latency in SDN Switch Architectures <i>Fabricio Mazzola (Federal University of Rio Grande do Sul, Brazil); Daniel Stefani Marcon (University of Vale do Rio dos Sinos, Brazil); Miguel Neves (Federal University of Rio Grande do Sul (UFRGS), Brazil); Marinho P. Barcellos (Federal University of Rio Grande do Sul, Brazil)</i></p> | <p>Blockage-Robust 5G mm-Wave Access Network Planning <i>Mohammad Nourifar, Francesco Devoti and Ilario Filippini (Politecnico di Milano, Italy)</i></p> <p>Rethinking Service Chain Embedding for Cellular Network Slicing <i>Chrysa Papagianni (Institute for Systems Research & University of Maryland, USA); Panagiotis Papadimitriou (University of Macedonia, Greece); John Baras (University of Maryland, College Park, USA)</i></p> <p>D2D Multihop Energy-Efficient Routing and OFDMA Resource Allocation in 5G Networks <i>Safwan Alwan (University Paris Est Créteil (UPEC), France); Ilhem Fajjari (Orange labs, France); Nadjib Aitsaadi (ESIEE Paris & Laboratory of Computer Science Gaspard-Monge - LIGM / CNRS (UMR 8049), France)</i></p> <p>Dynamic load balancing in 5G HetNets for optimal performance-energy tradeoff <i>Misikir Gebrehiwot, Pasi Lassila and Samuli Aalto (Aalto University, Finland)</i></p> |
| 12.10 | Lunch Break | |
| 13.40 | Session 5A - Named Data Networking | Session 5B - Wireless and Mobile Networks |
| | <p>Making Name-Based Content Routing More Efficient than Link-State Routing <i>JJ Garcia-Luna-Aceves (University of California at Santa Cruz & Palo Alto Research Center, USA); Ehsan Hemmati (UCSC, USA)</i></p> <p>PopNetCod: A Popularity-based Caching Policy for Network Coding enabled Named Data Networking <i>Jonnahtan Saltarin and Torsten Ingo Braun (University of Bern, Switzerland); Eirina Bourtsoulatzé (Imperial College London, United Kingdom); Nikolaos Thomos (University of Essex, United Kingdom)</i></p> <p>NEST: Efficient Transport of Data Summaries over Named Data Networks <i>Karim A. Khalil (Amazon Lab126, USA); Azeem Aqil and Srikanth V. Krishnamurthy (University of California, Riverside, USA); Tarek Abdelzaher (University of Illinois, Urbana Champaign, USA); Lance Kaplan (US Army Research Laboratory, USA)</i></p> <p>MUCA: New Routing for Named Data Networking <i>Chavoosh Ghasemi (University of Arizona, USA); Hamed Yousefi and Kang Shin (University of Michigan, USA); Beichuan Zhang (University of Arizona, USA)</i></p> | <p>Association Optimization in Wi-Fi Networks based on the Channel Busy Time Estimation <i>Mohammed Amer (Université de Lyon/LIP-ENS de Lyon, France); Anthony Busson (Ecole Normale Supérieure & Laboratoire de l'Informatique du Parallélisme, France); Isabelle Guérin Lassous (Université Claude Bernard Lyon 1 - LIP, France)</i></p> <p>Carrier-Sense Multiple Access with Transmission Acquisition (CSMA/TA) <i>Marcelo M Carvalho (University of Brasília, Brazil); JJ Garcia-Luna-Aceves (University of California at Santa Cruz & Palo Alto Research Center, USA)</i></p> <p>Prescriptive Analytics for MEC Orchestration <i>Alberto Ceselli (Università degli Studi di Milano, Italy); Marco Fiore (National Research Council of Italy, Italy); Angelo Furno (IFSTTAR, ENTPE, Université de Lyon, France); Marco Premoli (Università degli Studi di Milano, Italy); Stefano Secci (Sorbonne Université, France); Razvan Stanica (INSA Lyon, France)</i></p> <p>Profit and Strategic Analysis for MNO-MVNO Partnership <i>Nesrine Ben Khalifa, Amal Benhamiche, Alain Simonian and Marc Bouillon (Orange Labs, France)</i></p> |
| 15.20 | Coffee Break | |
| 15.50 | Session 6A - Data Center and Overlay Networks | Session 6B - Virtualization and Resource Sharing |
| | <p>HyLine: a Simple and Practical Flow Scheduling for Commodity Datacenters <i>Soheil Abbasloo and Yang Xu (New York University, USA); H. Jonathan Chao (NYU Tandon School of Engineering, USA)</i></p> <p>Dynamic Load Balancing with Tokens <i>Céline Comte (Nokia Bell Labs France & Télécom ParisTech, France)</i></p> <p>Moving Bits with a Fleet of Shared Virtual Routers <i>Pradeeban Kathiravelu (INESC-ID Lisboa / Instituto Superior Técnico, Universidade de Lisboa, Portugal); Marco Chiesa (KTH Royal Institute of Technology, Sweden); Pedro de B Marcos (UFRGS/FURG, Brazil); Marco Canini (KAUST, Saudi Arabia); Luís Veiga (INESC-ID Lisboa / Instituto Superior Técnico, Universidade de Lisboa, Portugal)</i></p> <p>Real-time Money Routing by Trusting Strangers with your Funds <i>Martijn De Vos and Johan Pouwelse (Delft University of Technology, The Netherlands)</i></p> | <p>Virtual Network Embedding Approximations: Leveraging Randomized Rounding <i>Matthias Rost (TU Berlin, Germany); Stefan Schmid (University of Vienna, Austria)</i></p> <p>Ahab: Data-Driven Virtual Cluster Hunting <i>Johannes Zerwas (Technische Universität München, Germany); Patrick Kalmbach (Technical University of Munich, Germany); Carlo Fuerst and Arne Ludwig (TU Berlin, Germany); Andreas Blenk and Wolfgang Kellerer (Technische Universität München, Germany); Stefan Schmid (University of Vienna, Austria)</i></p> <p>Controlling software router resource sharing by fair packet dropping <i>Vamsi Addanki and Leonardo Linguaglossa (Telecom ParisTech, France); James Roberts (IRT SystemX, France); Dario Rossi (Telecom ParisTech, France)</i></p> <p>Stateful Dominant Resource Fairness: Considering the Past in a Multi-Resource Allocation <i>Hugo Sadok (Universidade Federal do Rio de Janeiro, Brazil); Miguel Elias Mitre Campista (Federal University of Rio de Janeiro & GTA, Brazil); Luis Henrique M. K. Costa (Federal University of Rio de Janeiro, Brazil)</i></p> |
| 17.30 | End of Day | |

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| Time | Wednesday May 16, 2018 | |
| 8.15 | Registration | |
| 9.00 | Keynote III - Artificial Intelligence in Network Operations and Management | |
| 10.00 | Panel - Security and Privacy in the Internet of Things | |
| 11.00 | Coffee Break and Demo/Poster Session | |
| 12.10 | Lunch Break | |
| 13.40 | Session 7A - Network Models and Algorithms | Session 7B - Content Distribution |
| | <p>A New Dependence Model for Heterogeneous Markov Modulated Poisson Processes <i>Fang Dong, Kui Wu and Venkatesh Srinivasan (University of Victoria, Canada)</i></p> <p>Improving Output Bounds in the Stochastic Network Calculus Using Lyapunov's Inequality <i>Paul Nikolaus (Distributed Computer Systems Lab TU Kaiserslautern, Germany); Jens Schmitt (University of Kaiserslautern, Germany)</i></p> <p>Hierarchical Layer Selection with Low Overhead in Prioritized Network Coding <i>Marie Schaeffer, Roman Naumann and Stefan Dietzel (Humboldt-Universität zu Berlin, Germany); Björn Scheuermann (Humboldt University of Berlin, Germany)</i></p> <p>A Blockchain Consensus Protocol With Horizontal Scalability <i>Kelong Cong (EPFL, Switzerland); Zhijie Ren and Johan Pouwelse (Delft University of Technology, The Netherlands)</i></p> | <p>On the Delay Performance of Browser-based Interactive TCP Free-viewpoint Streaming <i>Tilak Varisetty (Leibniz Universität Hannover & Tyntec GmbH, Germany); Markus Fidler (Leibniz Universität Hannover, Germany); Matthias Ueberheide (Computer Graphics Lab, Germany); Marcus Magnor (Technische Universität Braunschweig, Germany)</i></p> <p>Alternative Handshake Mechanism for the Stream Control Transmission Protocol <i>Felix Weinrank, Irene Rüngeler and Michael Tüxen (Münster University of Applied Sciences, Germany); Erwin P. Rathgeb (Universität Duisburg-Essen, Germany)</i></p> <p>A Framework for Evaluating Caching Policies in A Hierarchical Network of Caches <i>Eman Ramadan, Pariya Babaie and Zhi-Li Zhang (University of Minnesota, USA)</i></p> <p>Neural Networks for Measurement-based Bandwidth Estimation <i>Sukhpreet Kaur Khangura, Markus Fidler and Bodo Rosenhahn (Leibniz Universität Hannover, Germany)</i></p> |
| 15.20 | Coffee Break | |
| 15.50 | Session 8A - Short Presentation Papers I | Session 8B - Short Presentation Papers II |
| | <p>Decentralized Scheduling for Offloading of Periodic Tasks in Mobile Edge Computing <i>Slađana Jošilo and György Dán (KTH Royal Institute of Technology, Sweden)</i></p> <p>Experience-Availability Analysis of Online Cloud Services using Stochastic Models <i>Yue Cao, Laiping Zhao, Rongqi Zhang, Yanan Yang, Xiaobo Zhou and Keqiu Li (Tianjin University, P.R. China)</i></p> <p>Tuning Multipath TCP for Interactive Applications on Smartphones <i>Quentin De Coninck (Universite Catholique de Louvain, Belgium); Olivier Bonaventure (Université catholique de Louvain, Belgium)</i></p> <p>Waypoint Routing in Special Networks <i>Saeed Akhoondian Amiri (MPI, Saarland, Germany); Klaus-Tycho Foerster (University of Vienna, Austria); Riko Jacob (IT University of Copenhagen, Denmark); Mahmoud Parham and Stefan Schmid (University of Vienna, Austria)</i></p> | <p>Complex Services Offloading in Opportunistic Networks <i>The An Binh Nguyen (Technische Universität Darmstadt, Germany); Marius Rettberg-Päpflow and Christian Meurisch (TU Darmstadt, Germany); Tobias Meuser</i></p> <p>PPAD: Privacy Preserving Group-Based Advertising in Online Social Networks <i>Sanaz Taheri Boshrooyeh and Alptekin Küpçü (Koç University, Turkey); Oznur Ozkasap (Koc University, Turkey)</i></p> <p>Is There a Case for Parallel Connections with Modern Web Protocols? <i>Jawad Manzoor and Ramin Sadre (Université Catholique de Louvain, Belgium); Idilio Drago (Politecnico di Torino, Italy); Llorenç Cerdà-Alabern (Universitat Politècnica de Catalunya, Spain)</i></p> <p>A Protocol-Ignorance Perspective on Incremental Deployability of Routing Protocols <i>Vadim Kirilin (IMDEA Networks Institute & University Carlos III of Madrid, Spain); Sergey Gorinsky (IMDEA Networks Institute, Spain)</i></p> |
| 16.50 | End of Day | |