## 2019 10th International Conference on the Network of the Future (NoF 2019)

## **Technical Program**

## **Security and Anomaly Detection**

"Unsupervised Detection of Adversarial Collaboration in Data-Driven Networking"  Matteo Sammarco (AXA, France), Miguel Elias Mitre Campista (Federal University of Rio GTA, Brazil), Marcin Detyniecki (AXA, France), Tahiry Razafindralambo (University of France), and Marcelo Dias de Amorim (UPMC Sorbonne Universités, France	la Reunion,
"Evaluating Cryptographic Algorithms in IEC 61850 Networks"  Rafael Scarselli (Universidade Federal Fluminense, Brazil), Leonardo Soares (Universidade Fluminense, Brazil), and Igor Monteiro Moraes (Universidade Federal Fluminense, Brazil)	
"A light-weighted ANN architecture for the classification of cyber-threats in modern connetworks"  Eleni Ketzaki (Centre for Research and Technology Hellas, Greece), Anastasios Drosou Research and Technology Hellas, Greece), Stavros Papadopoulos (Centre for Research and Hellas, Greece), and Dimitrios Tzovaras (Centre for Research and Technology Hellas, Greece)	(Centre for d Technology cce)
Network Slicing "Multi-level Resource Scheduling for Network Slicing Toward 5G" Duc-Hung Luong, Abdelkader Outtagarts (Nokia Bell-Labs France), and Yacine Ghar (University of La Rochelle, France)	mri-Doudane
"Automating the deployment of 5G Network Slices with ONAP"  Veronica Quintuna Rodriguez (Orange Labs, France), Fabrice M. Guillemin (Orange Labs, Amina Boubendir (Orange Labs, France)	France), and
"Telco Network Slicing Models enabling Recursive Multi-Tenancy"  Marie Laure Heno (Orange Labs, France), Amina Boubendir (Orange France), and No (Telecom Paristech, France)	
"Multi-Resource Allocation for Network Slicing under Service Level Agreements" (Invited R Francesca Fossati (Cnam, France & LIP6, France), Stefano Moretti (Université Paris Dan UMR, France), and Stefano Secci (Cnam, France)	uphine CNRS
"NESSMA: Network Slice Subnet Management Framework" (Short Paper) Mohammed Chahbar (Université of Paris 13, France), Gladys Diaz (University of Paris Abdulhalim Dandoush (ESME Sudria, France), Christophe Cerin (University of Paris 13, Kamal Ghoumid (Mohammed Premier University, Morocco)	13, France),

## **SDN and Data Center**

"Network-Aware Server Consolidation for Wireless Data Centers"  Sayed Ashraf Mamun (Rochester Institute of Technology, USA), Amlan Ganguly (Rochester Institute of Technology, USA), Minseok Kwon (Rochester Institute of Technology, USA), Andres Kwasinsk (Rochester Institute of Technology, USA), and Panos P. Markopoulos (Rochester Institute of Technology, USA)
page 58
"LogSnap: Creating Snapshots of OpenFlow Data Centre Networks for Offline Querying" Jonathan Sherwin (Cork Institute of Technology, Ireland) and Cormac J. Sreenan (University College Cork, Ireland)
page 66
"Dynamic In-Network Classification for Service Function Chaining ready SDN networks"  Marco Polverini (University of Rome "La Sapienza", Italy), Jaime Galán-Jiménez (University o Extremadura, Spain), Francesco Giacinto Lavacca (Fondazione Ugo Bordoni, Italy), Antonio Cianfran (University of Rome "La Sapienza", Italy), and Vincenzo Eramo (University of Rome "La Sapienza", Italy), and Vincenzo Eramo (University of Rome "La Sapienza", Italy), and Vincenzo Eramo (University of Rome "La Sapienza", Italy).
Network Protocols
"Impact of QUIC on fairness in mobile networks"  Romuald Corbel (Orange Labs, France), Stephane Tuffin (Orange Labs, France), Annie Gravey (IMTAtlantique, France), Arnaud Braud (Orange Labs, France), and Xavier Marjou (Orange Labs, France)
"Topology Distribution for Video-Conferencing Applications"  Mauricio Altamirano Silva (Frankfurt University of Applied Sciences, Germany), Raul Bertone (Frankfurt University of Applied Sciences, Germany), and Jörg Schäfer (Frankfurt University of Applied Sciences Germany)
"Asymptotically Optimal Distributed Gateway Load-Balancing for the Internet of Things" (Short Paper Ilai Bistritz (Stanford University, USA), and Nicholas Bambos (Stanford University, USA)page 98
Quality of Service and Secrurity
"Softwarization of SCADA: Lightweight Statistical SDN-Agents for Anomaly Detection" Giulia Rinaldi (University of Rome "La Sapienza", Italy), Florian Adamsky (Hof University, Germany) Ridha Soua (University of Luxembourg, Luxembourg), Andrea Baiocchi (University of Rome "La Sapienza", Italy), and Thomas Engel (University of Luxembourg, Luxembourg)
"Broker Bridging Mechanism for Providing Anonymity in MQTT" (Short Paper) Yanina Protskaya (University of Parma, Italy) and Luca Veltri (University of Parma, Italy)page 110

"Design considerations for high-performance Time Sensitive Networking switches" (Short Paper)  Aleksander Pruski (Technical University of Denmark, Denmark) and Michael S. Berger (Technical University of Denmark, Denmark)
"Correlation among QoE/QoS and Network Degradations for Automatic Performance Recovery in a Wide Area Network Test Bed" (Short Paper)  Edion Tego (Fondazione Ugo Bordoni, Italy) and Francesco Matera (Fondazione Ugo Bordoni, Italy)
Internet of Things, Mobile and Wireless Networks
"An SDN-based access point virtualization solution for multichannel IEEE 802.11 networks" (Short Paper) Juan Lucas Vieira (Universidade Federal Fluminense, Brazil) and Diego Passos (Universidade Federal Fluminense, Brazil)
"Stock market trading strategies and cost estimation for telecommunication resource management" (Short Paper) Akos Leiter (Nokia Bell Labs, Hungary) and Laszlo Bokor (Budapest University of Technology and Economics, Hungary)
"Fog computing architecture with heterogeneous Internet of Things technologies" (Short Paper)  Hoan Le (University of Paris 13, France), Khaled Boussetta (University of Paris 13, France), and Nadjib  Achir (University of Paris 13, France)
"Using LoRa Technology for IoT Monitoring Systems" (Short Paper) Christos J Bouras (Computer Technology Institute & Press "Diophantus", Greece), Apostolos Gkamas (University Ecclesiastical Academy of Vella, Greece), Vasileios Kokkinos (University of Patras, Greece), and Nikolaos Papachristos (University of Patras, Greece)
<u>NMRG</u>
"Self-Generated Intent-Based System" (Demo Paper)  Mehdi Bezahaf (Lancaster University, United Kingdom), Marco Perez Hernandez (University of Cambridge, United Kingdom), Lawrence Bardwell (Lancaster University, United Kingdom); Eleanor Davies (Lancaster University, United Kingdom), Matthew Broadbent (Lancaster University, United Kingdom), Daniel King (Lancaster University, United Kingdom), and David Hutchison (Lancaster University, United Kingdom)
"Intent-Based 5G IoT Application Network Slice Deployment" (Demo Paper) Fred Aklamanu (Telecom SudParis & Nokia Bell Labs, France), Sabine Randriamasy (Nokia Bell Labs, France), and Eric Renault (Institut Mines-Telecom - Telecom SudParis & Samovar CNRS, France)

"Intent-based Service Function Chaining on ETSI NFV Platforms" (Demo Paper)
Davide Borsatti (University of Bologna, Italy), Walter Cerroni (University of Bologna, Italy), Gianluca
Davoli (University of Bologna, Italy), and Franco Callegati (University of Bologna, Italy)
page 144