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TMA TECHNICAL PROGRAM

TMA Conference Program

Session 1: Traffic Analysis

eMIMIC: Estimating HTTP-based Video QoE Metrics from Encrypted Network Traffic

Tarun Mangla, Emir Halepovic, Mostafa Ammar, Ellen Zegura

FlowMon-DPDK: Parsimonious per-flow Software Monitoring at Line Rate

Tianzhu Zhang, Leonardo Linguaglossa, Massimo Gallo, Paolo Giaccone, Dario Rossi

Degree-based Outliers Detection within IP Traffic Modelled as a Link Stream

Audrey Wilmet, Tiphaine Viard, Matthieu Latapy, Robin Lamarche-Perrin

First Look at Data Center Network Conditions Through The Eyes of PTPmesh

Diana Andreea Popescu, Andrew W. Moore

Session 2: Data Analytics

Dmap: Automating Domain Name Ecosystem Measurements and Applications

Maarten Wullink, Giovane C. M. Moura, Cristian Hesselman

On the Analysis of Network Measurements through Machine Learning: the Power of the Crowd

Pedro Casas

An Artificial Arms Race: Could it Improve Mobile Malware Detectors?

Raphael Bronfman-Nadas, Nur Zincir-Haywood, John T. Jacobs

Mobile Encrypted Traffic Classification Using Deep Learning

Aceto Giuseppe, Domenico Ciuonzo, Antonio Montieri, Antonio Pescapè

Session 3: Mobile Measurement

Anycast on the Move: A Look at Mobile Anycast Performance

Sarah Wassermann, John P. Rula, Fabián E. Bustamante, Pedro Casas

Measurement Analysis of TCP Congestion Control Algorithms in LTE Uplink

Ali Parichehreh, Stefan Alfredsson, Anna Brunstrom

Measuring Mobile Network Multi-Access for Time-Critical C-ITS Applications

Fehmi Ben Abdesslem, Henrik Abrahamsson, Bengt Ahlgren

Session 4: Content/Application Measurement

Passive Observations of a Large DNS Service: 2.5 Years in the Life of Google

Wouter B. de Vries, Roland van Rijswijk-Deij, Pieter-Tjerk de Boer, Aiko Pras

A Wrapper for Automatic Measurements with YouTube's Native Android App

Michael Seufert, Bernd Zeidler, Florian Wamser, Theodoros Karagkioules, Dimitrios Tsilimantos, Frank Loh, Phuoc Tran-Gia, Stefan Valentin

A Second Screen Journey to the Cup: Twitter Dynamics during the Stanley Cup Playoffs

Daniel de Leng, Mattias Tiger, Mathias Almquist, Viktor Almquist, Niklas Carlsson

Studying the Evolution of Content Providers in the Internet Core

Esteban Carisimo, Carlos Selmo, J. Ignacio Alvarez-Hamelin, Amogh Dhamdhere

Session 5: Hands-on Network Traffic Measurement and Analysis

Tracing Internet Path Transparency

Mirja Kühlewind, Michael Walter, Iain R. Learmonth, Brian Trammell

Towards Provable Network Traffic Measurement and Analysis via Semi-Labeled Trace Datasets

Milan Cermak, Tomas Jirsik, Petr Velan, Jana Komarkova, Stanislav Spacek, Martin Drasar, Tomas Plesnik

Comparison of Spectral and Energy Efficiency Metrics using Measurements in a LTE-A Network

Sandrine Boumard, Ilkka Harjula, Teemu Kanstren, Seppo J. Rantala

Non-parametric Bootstrap Detection of Availability Service Level Objective Violations in Cloud Storage

Maurizio Naldi

Session 6: Demos

App for Dynamic Crowdsourced QoE Studies of HTTP Adaptive Streaming on Mobile Devices

Michael Seufert, Nikolas Wehner, Pedro Casas

An SDN-based Approach for QoS and Reliability in Overlay Networks

Isabel Amigo, Gabriel Gómez Sena, Marwa Chami, Pablo Belzarena

Automated VNF Testing with Gym: A Benchmarking Use Case

Raphael Vicente Rosa, Christian Esteve Rothenberg

An Intelligent Data Visualization Service Platform for Mobile Network Operators

Naz Albayrak, Engin Zeydan

Distributed Internet Paths Performance Analysis through Machine Learning

Sarah Wassermann, Pedro Casas

YouTube QoE Monitoring with YoMoApp: A Web-based Data Interface for Researchers

Florian Wamser, Nikolas Wehner, Michael Seufert, Pedro Casas, Phuoc Tran-Gia

Session 7: Inference of Network Properties

Demystifying TCP Initial Window Configurations of Content Distribution Networks

Jan Rüth, Oliver Hohlfeld

Using Crowdsourcing Marketplaces for Network Measurements: The Case of Spoofer

Qasim Lone, Mobin Javed, Maciej Korczynski, Hadi Asghari, Matthew Luckie, Michel van Eeten

Exploring usable Path MTU in the Internet

Ana Custura, Gorry Fairhurst, Iain Learmonth

MNM Workshop Program

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Visualizing Mobile Coverage from Repetitive Measurements on Defined Trajectories

Chad Jarvis, Cise Midoglu, Andra Lutu, Özgü Alay

I'm Only Unhappy When It Rains: Forecasting Mobile QoS With Weather Conditions

Diego Madariaga, Martín Panza, Javier Bustos-Jimenez

Deriving Cell Load from RSRQ Measurements

Vaclav Raida, Martin Lerch, Philipp Svoboda, Markus Rupp

Session 2: Multipath and Application Performance

Connected Vehicles in Cellular Networks: Multi-access versus Single-access Performance

Henrik Abrahamsson, Fehmi Ben Abdesslem, Bengt Ahlgren, Anna Brunstrom, Ian Marsh, Mats Bjorkman

Voice-activated Applications and Multipath TCP: a Good Match?

Viet-Hoang Tran, Hajime Tazaki, Quentin De Coninck, Olivier Bonaventure

A Public Dataset for YouTube's Mobile Streaming Client

Theodoros Karagkioules, Dimitrios Tsilimantos, Stefan Valentin, Florian Wamser, Bernd Zeidler, Michael Seufert, Frank Loh, Phuoc Tran-Gia