Table of Contents

Traffic Engineering and Quality-of-Service

A Framework for Robust Traffic Engineering Using Evolutionary Computation 1
Vitor Pereira, Miguel Rocha, Paulo Cortez, Miguel Rio, and Pedro Sousa

On the Impact of Redirection on HTTP Adaptive Streaming Services in Federated CDNs 13
Jeroen Famaey, Steven Latré, Ray van Brandenburg, M. Oskar van Deventer, and Filip De Turck

Design and Evaluation of Tile Selection Algorithms for Tiled HTTP Adaptive Streaming 25
Jens Devloo, Nils Lamot, Jelle van Campen, Evi Weymaere, Steven Latré, Jeroen Famaey, Ray van Brandenburg, and Filip De Turck

Ph.D. Workshop — Monitoring and Modeling

Monitoring and Security for the Internet of Things 37
Anthéa Mayzaud, Rémi Badonnel, and Isabelle Chrisment

Understanding the Impact of Network Infrastructure Changes Using Large-Scale Measurement Platforms 41
Vaibhav Bajpai and Jürgen Schönwälder

Fair Allocation of Multiple Resources Using a Non-monetary Allocation Mechanism 45
Patrick Poullie and Burkhard Stiller

Security Management

Anomaly Detection and Mitigation at Internet Scale: A Survey 49
Jessica Steinberger, Lisa Schehlmann, Sebastian Abt, and Harald Baier

Towards Learning Normality for Anomaly Detection in Industrial Control Networks 61
Franka Schuster, Andreas Paul, and Hartmut König

Bibliografische Informationen
http://d-nb.info/1035028751

digitalisiert durch DEUTSCHE NATIONAL BIBLIOTHEK

Detecting IP Spoofing by Modelling History of IP Address Entry Points 73
Michal Kováčik, Michal Kajan, and Martin Žádník

Ph.D. Workshop — Content Distribution and Multimedia

Towards an Adaptive Publish/Subscribe Approach Supporting Transitions 84
Björn Richerzhagen and Ralf Steinmetz

Towards a Mobility-Supporting Incentive Scheme for Peer-to-Peer Content Distribution 88
Matthias Wichtlhuber and David Hausheer

Cache Management Strategy for CCN Based on Content Popularity 92
César Bernardini, Thomas Silverston, and Olivier Festor

QoE-Centric Management of Multimedia Networks through Cooperative Control Loops 96
Niels Bouten, Steven Latré, and Filip De Turck

Autonomous Management

Enabling the Autonomic Management of Federated Identity Providers 100
Christopher Bailey, David W. Chadwick, Rogério de Lemos, and Kristy W.S. Siu

On the Effects of Omitting Information Exchange between Autonomous Resource Management Agents 112
Siri Fagernes and Alva L. Couch

Monitoring Mechanisms

Flow-Based Detection of DNS Tunnels 124
Wendy Ellens, Piotr Żuraniewski, Anna Sperotto, Harm Schotanus, Michel Mandjes, and Erik Meeuwissen

Retrieving Monitoring and Accounting Information from Constrained Devices in Internet-of-Things Applications 136
Oleksiy Mazhelis, Martin Waldburger, Guilherme Sperb Machado, Burkhard Stiller, and Pasi Tyrväinen

Passive Remote Source NAT Detection Using Behavior Statistics Derived from NetFlow 148
Sebastian Abt, Christian Dietz, Harald Baier, and Slobodan Petrović

Author Index 161