Daphne Tuncer · Robert Koch Rémi Badonnel · Burkhard Stiller (Eds.)

Security of Networks and Services in an All-Connected World

11th IFIP WG 6.6 International Conference on Autonomous Infrastructure, Management, and Security, AIMS 2017 Zurich, Switzerland, July 10–13, 2017 Proceedings



Contents

Security Management 3 Marek Švepeš and Tomáš Čejka A Blockchain-Based Architecture for Collaborative DDoS Mitigation with Smart Contracts..... 16 Bruno Rodrigues, Thomas Bocek, Andri Lareida, David Hausheer. Sina Rafati, and Burkhard Stiller Achieving Reproducible Network Environments with INSALATA 30 Nadine Herold, Matthias Wachs, Marko Dorfhuber, Christoph Rudolf. Stefan Liebald, and Georg Carle Management of Cloud Environments and Services Towards a Software-Defined Security Framework for Supporting 47 Maxime Compastié, Rémi Badonnel, Olivier Festor, Ruan He, and Mohamed Kassi-Lahlou Optimal Service Function Chain Composition in Network 62 Andrés F. Ocampo, Juliver Gil-Herrera, Pedro H. Isolani, Miguel C. Neves, Juan F. Botero, Steven Latré, Lisandro Zambenedetti, Marinho P. Barcellos, and Luciano P. Gaspary Evaluation and Experimental Study of Rich Network Services An Optimized Resilient Advance Bandwidth Scheduling for Media 79 Maryam Barshan, Hendrik Moens, Bruno Volckaert, and Filip De Turck The Evaluation of the V2VUNet Concept to Improve 94 Lisa Kristiana, Corinna Schmitt, and Burkhard Stiller Towards Internet Scale Quality-of-Experience Measurement with Twitter. . . . 108 Dennis Kergl, Robert Roedler, and Gabi Dreo Rodosek