

Prof. Dr. Stefan Schmid

Personal Details

Nationality: Swiss

Contact: University of Vienna, Faculty of Computer Science, Waehringerstr. 29, 1090 Vienna, Austria, schmiste@gmail.com Google Scholar: <https://scholar.google.com/citations?user=o3Mh4FwAAAAJ&hl=en&oi=ao>

Professional Experience

2/2018 – : Full Professor (Univ.-Prof.) Communication Technologies, University of Vienna, Austria.

12/2015 – 1/2018: Associate Professor, Aalborg University, Denmark.

11/2009 – 11/2015: Senior Research Scientist, Telekom Innovation Labs (T-Labs) and TU Berlin, Germany

2014: Visiting Professor at Universit Catholique de Louvain (UCL), Louvain, Belgium

2014: Visiting Professor at Centre National de la Recherche Scientifique (CNRS), Toulouse, France

03/2008 – 10/2009: Postdoctoral Researcher and Teaching Assistant at TU Munich, Germany (last months spent at University of Paderborn, Germany)

5/2005 – 3/2008: Ph.D. Student and Teaching Assistant, ETH Zurich, Switzerland

Education

University Pedagogy - 2017: Program on Higher Education at Aalborg University.

Ph.D. - 2008: Federal Institute of Technology (ETH Zurich), Switzerland - Distributed Computing Group.

Name of advisor: Roger Wattenhofer

Referees: Boaz Patt-Shamir (Tel Aviv University) and Tim Roughgarden (Stanford University)

Diploma / M.Sc. - 2005: Federal Institute of Technology (ETH Zurich), Switzerland - Computer Science

Awards

- IEEE Communications Society ITC Early Career Award 2016.
- Selected into Aalborg University's inter-faculty talent management program.
- Best Paper Awards at ACM CoNEXT Workshop CAN 2016, IEEE CloudNet 2013, ICDCN 2012.
- Glass flower award of Computer Science Department at Aalborg University for good PR.

Recent Community Services (Examples)

- Technical Program Committee: ACM PODC (2018,2014), ACM SIGMETRICS (2018,2017), IEEE INFOCOM (2018,2017), etc.
- Co-Chair: IEEE Global Internet Symposium 2016, IEEE INFOCOM Workshop NetSciCom 2016, IEEE CloudCom 2016, Distributed Cloud Computing (DCC) workshop collocated, e.g., with ACM SIGCOMM 2014, ACM SIGMETRICS 2015, ACM PODC 2016.
- Steering Committee of IEEE Global Internet Symposium (2016 onward)

Grants and Projects

- 2016-2019: Grant within the internationalization program at Aalborg University. Research area: data-aware networking.
- 2016-2017: Danish VILLUM FONDEN blokstipendier grant. Research area: reliable computer networks.
- 2016-2019: Aalborg University's talent grant. Research area: predictable cloud application performance.
- 2014-2017: GIF I-1245-407.6/2014: Yin-Yang Networking. Research area: self-adjusting systems.
- 2015: Project funded by the German Federal Office for Information (BSI). Research area: network security and SDN.
- 2013-2016: FP7 IP Project UNIFY. Research area: Unifying cloud and carrier network, orchestration.
- 2012-2015: FP7-ICT STREP Project BIGFOOT. Research area: Big data analytics, virtualization.
- 2014: European Institute of Technology and Innovations (EIT) ICT project 13153. Research area: software-defined networking for wireless networks.
- 2014-2015: DAAD PROCOPE Project NetMaps. Research area: Topology inference.

Talks (Recent Examples)

1. Keynotes: RNDM 2017, IEEE NFV-SDN 2017, INFOCOM SWFAN 2017
2. Invited speaker: DIMACS workshop on Algorithms for Data Center Networks (2017), NSF Algorithms in the Field (AiTF) Workshop on Algorithms for Software-Defined Networking, workshops at ACM PODC 2016, DISC 2015, DISC 2013, etc.

Selected Scientific Publications

- P1. Jiri Srba and Stefan Schmid. Polynomial-Time What-If Analysis for Prefix-Manipulating MPLS Networks. *IEEE INFOCOM*, 2018.
- P2. Yvonne Anne Pignolet, Stefan Schmid, and Gilles Tredan. Tomographic Node Placement Strategies and the Impact of the Routing Model. *ACM SIGMETRICS*, 2018.
- P3. Marcin Bienkowski, Jan Marcinkowski, Maciej Pacut, Stefan Schmid, and Aleksandra Spyra. Online Tree Caching. In *Proc. 29th ACM SPAA*, 2017.
- P4. Kashyap Thimmaraju, Liron Schiff, and Stefan Schmid. Outsmarting Network Security with SDN Teleportation. In *Proc. 2nd IEEE European Symposium on Security and Privacy (EuroS&P)*, 2017.
- P5. Carlo Fuerst, Stefan Schmid, Lalith Suresh, and Paolo Costa. Kraken: Online and Elastic Resource Reservations for Multi-tenant Datacenters. In *35th IEEE INFOCOM*, 2016.
- P6. Arne Ludwig, Szymon Dudycz, Matthias Rost, and Stefan Schmid. Transiently Secure Network Updates. In *Proc. 42nd ACM SIGMETRICS*, 2016.
- P7. Saeed Akhoondian Amiri, Stefan Schmid, and Sebastian Siebertz. A Local Constant Factor MDS Approximation for Bounded Genus Graphs. In *Proc. ACM PODC*, 2016.
- P8. Lalith Suresh, Marco Canini, Stefan Schmid, and Anja Feldmann. C3: Cutting tail latency in cloud data stores via adaptive replica selection. In *Proc. 12th USENIX NSDI*, 2015.
- P9. Riko Jacob, Andrea Richa, Christian Scheideler, Stefan Schmid, and Hanjo Taeubig. Skip+: A self-stabilizing skip graph. *Journal of the ACM (JACM)*, 2014.
- P10. Dan Levin, Marco Canini, Stefan Schmid, Fabian Schaffert, and Anja Feldmann. Panopticon: Reaping the benefits of incremental sdn deployment in enterprise networks. In *Proc. USENIX Annual Technical Conference (ATC)*, 2014.