

Curriculum vitae

Sigg, Stephan; male

04.09.2020

Date of birth January, 25th 1978 in Hanover, Germany
Citizenship German
Civil status Married, two daughters (10 and 13 years)
Residence Kruununkuja 4 D7, 02180 Espoo, Finland
Web http://www.ambientintelligence.aalto.fi/team_stephan.php

Current position

09.2015 – **Associate Professor** (tenured 11.2019), Aalto University, School of Electrical Engineering, Department of Communications and Networking

Education and degrees completed

04.2017 **Habilitation** at TU Braunschweig, Germany; Thesis: Some aspects of physical prototyping in Pervasive Computing; Contact: Imma Braun (CEO, Deans office of the Carl-Friedrich-Gauß-Fakultät of TU Braunschweig); i.braun@tu-braunschweig.de; +49 531 391-2840
02.2010 **M.Sc. in the further education course** 'Hagener Masterstudiengang Management' at FernUniversität Hagen, Germany; Grade: 1.5; Thesis: Optimisation of a three stage cooling process.
02.2008 **PhD**, chair for communication technology of the University of Kassel, Germany; Grade: with distinction (summa cum laude, Dr. rer. nat.) Thesis: Development of a novel context prediction algorithm and analysis of context prediction schemes'.
08.2004 **Graduation as Dipl.-Inform. (MSc degree)** Grade: 1.3; thesis: 'Ein Vergleich verschiedener Varianten endlicher Quantenautomaten'.

Previous work experience and research visits

07.2019-08.2019 **Internat. Visiting Research Professor** at University of Science and Technology, Hefei, China;
03.2017-05.2017 **Research visit** at the National Institute of Informatics, Tokyo, Japan;
07.2015-08.2015 **Visiting researcher** at the University of Helsinki (Nodes group);
04.2014-08.2014 **Visiting researcher** at the University of Helsinki (Nodes group);
10.2013-09.2015 **Research associate**, chair for Computer Networks of the Georg-August University Goettingen;
07.2013-09.2013 **Academic guest** in the Wearable Computing Group of ETH Zurich; Switzerland
06.2013-09.2013 **DAAD researcher**, Institute for operating Systems and computer networks; TU Braunschweig
12.2012-03.2013 **Researcher**, National Institute of Informatics; Information Systems Architecture Science; Tokyo
09.2012-03.2013 **Part-time Lecturer** for Information Network Systems at Waseda University, Tokyo;
12.2010-11.2012 **Visiting Researcher** at the National Institute of Informatics, Tokyo;
10.2010-03.2011 **Visiting Professorship** at the Technische Universität Braunschweig;
04.2010-09.2010 **Postdoctoral associate** at the Karlsruhe Institute of Technology (KIT)
01.2008-03.2010 **Postdoctoral associate** at the Technische Universität Braunschweig
01.2005-12.2007 **PhD candidate** at the chair for communication technology of the University of Kassel

Teaching expertise

spring 2021	Lecturer	Machine Learning (BSc)	Aalto University	Finland
spring 2019/20	Lecturer	Basic Principles in Networking (BSc)	Aalto University	Finland
winter 2019/8/7/6	Lecturer	Machine Learning for Pervasive Systems (MSc)	Aalto University	Finland
summer 2015/14	Lecturer	Machine Learning and Pervasive Computing (MSc)	Goettingen University	Germany
summer 2015	Lecturer	Machine Learning and Pervasive Computing (MSc)	TU Braunschweig	Germany
winter 2013	Lecturer	Selected topics in Pervasive Computing (MSc)	Goettingen University	Germany
winter 2012	Lecturer	Information Network Systems (BSc)	Waseda University	Japan
summer 2011	Lecturer	Secure communication from noisy input (MSc)	TU Braunschweig	Germany
winter 2011	Lecturer	Operating Systems (BSc)	TU Braunschweig	Germany
winter 09/10/su10	Lecturer	Collaborative transmission in WSNs (MSc)	TU Braunschweig	Germany
winter 2008	Lecturer	Algorithms for context prediction (MSc)	TU Braunschweig	Germany

Personal research funding and grants

12.2019-05.2020	Bayer: Project collaboration on FAIR IoT protocols for healthcare	50 000€
04.2019-12.2020	Nokia: Project collaboration (shared with Risto Wichman)	172 500€
09.2019-08.2022	H2020 MSCA-ITN: Windmill – Integrating Wireless Comm. Engin. & Machine Learn.	200 000€
01.2019-12.2020	EU CHIST-ERA: Radio Sense – Wireless Big Data Augmented Smart Industry	196 492€
09.2018-08.2021	Academy of Finland ICT 2023 programme: Energy efficient ICT systems of the future	175 000€
01.2018-12.2018	Aalto KAIST Seed funding;	15 000€
01.2018-12.2018	EIT digital HII-Active (EIT);	50 000€
01.2017-12.2018	Mobility from Finland (Academy of Finland);	6 000€
01.2017-12.2017	EIT digital HII-Active (EIT);	50 000€
04.2014	Starting grant, Georg-August University Goettingen;	5 000€
06.2013-12.2013	Research grant of the German Academic Exchange Service (DAAD);	7 200€
12.2011-11.2012	Scholarship of the German Academic Exchange Service (DAAD);	56 040€
12.2010-11.2011	Scholarship of the German Academic Exchange Service (DAAD);	51 336€

Awards and honours

2019	NII Shonan Meeting 'Spoken Multimodal Dialogue Systems Techn. for Pervasive Computing'
2018	NII Shonan Meeting 'Resilient Machine-to-Machine communication' (Organizer).
2017	Habilitation at TU Braunschweig, Germany
2016	GI Dagstuhl seminar 'Aware Machine-to-Machine communication' (Organizer).
2015	NII Shonan Meeting 'Challenges for real-time human activity recognition' (Organizer).
2013	PostDoc grant of the DAAD for a research project in the frame of the programme 'Rückgewinnung Deutscher Wissenschaftler aus dem Ausland'.
2013	NII Shonan meeting 'Intelligent Inform. Processing – Chances of Crowdsourcing'.
2012	Dagstuhl seminar 12492 on human activity recognition in smart environments.
2011	Postdoctoral scholarship of the German Academic Exchange Service (DAAD) for a researcher position at the National Institute of Informatics, Tokyo, Japan.
2010	Postdoctoral scholarship of the German Academic Exchange Service (DAAD) for a researcher position at the National Institute of Informatics, Tokyo, Japan.
2009	VDI prize of the VDI-Nordhessen for an outstanding dissertation in the year 2008 (1st prize)
2008	Dissertation with honours in computer science (summa cum laude)

Positions of trust (selection)

General chair	7th International Conference on Mobile Computing, Applications and Services (MobiCase 2015);
TPC chair	International Conference on Mobile and Ubiquitous Systems (MobiQuitous) 2021; International Conference on Mobile and Ubiquitous Systems (MobiQuitous) 2016;
Demo chair	International Conference on Conference on Networked Systems (NetSys) 2017;
Workshops chair	19th Int. Conf. on Pervasive Computing and Comm. (PerCom) 2021, International Conference on Conference on Networked Systems (NetSys) 2017, Int. Conf. on Mobile and Ubiquitous Systems: Computing, Netw. and Services (MobiQuitous 2014);
Guest Editor	Springer PUC Theme Issue: Security and trust in context-aware systems, Special section in IEEE Access (2017): Emergent Topics for Mobile and Ubiquitous Systems in Smartphone, IoT, and Cloud Computing Era, Springer Mobile Networks and Applications, special issue: Mobile and Ubiquitous Systems;
TPC (selection)	IEEE PerCom 2016-2021; Netsys 2017-2021; IEEE ICDCS 2020; MSN 2020 (track chair)
Editorial board	Proc. of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT); Frontiers in Computer Science: Mobile and Ubiquitous Computing Frontiers in Data Science for Communications Elsevier Journal on Computer Communications (ComCom); International Journal of peer-to-peer networks (IJP2P)

Supervision experience (PostDoc, PhD, Intern)

J. Ma (Aalto, PhD/main supervisor/09.2020-); S. Zuo (Aalto, PhD/main/11.2019-); D. Salami (Aalto, PhD/main supervisor/10.2019-); A. Naas (Aalto, PhD/main/06.2019-); S. Palipana (Aalto, PostDoc/main/03.2019-); R. Findling (Aalto, PostDoc/main/11.2017-); L. Nguyen (Aalto, PhD/main/01.2016-); M. Raja (Aalto, PhD/main/12.2015-); R. Findling (JKU Linz, PhD/secondary/2017); A. Jahn (Kassel U. PhD/secondary/2017); D. Schuermann (TU Braunschweig PhD/secondary/03.2012-01.2018); S. Shi (NII Tokyo PhD/secondary/03.2011-04.2017); S. Hartung (Goettingen U. PhD/secondary/2015); B. Banitalebi (Karlsruhe Inst. of Techn. PhD/secondary/06.2010-04.2014); L. Nguyen (NII post-graduate intern/main/2011); M. Hock (NII post-graduate intern/main/2012); S. Roettgers (NII post-graduate intern/main/2012); S. Dechand (NII post-graduate intern/main/2012); A. Huynh (NII post-graduate intern/main/2013); F. Büsching (NII doctoral intern/main/2013); O. Streibel (NII doctoral intern/main/2013); M. Nieva (TU Braunschweig undergraduate intern/secondary/2016); A. Bruesch (Aalto post-graduate intern/main/2016)

Member on dissertation committees

09.2020	Muneeba Raja (Aalto University)
09.2020	Le Ngu Nguyen (Aalto University)
01.2018	Dominik Schuermann (TU Braunschweig);
11.2017	Andreas Jahn (Kassel University);
10.2017	Rainhard Findling (JKU Linz);
07.2016	Shuyu Shi (NII, Tokyo);
12.2015	Salke Hartung (Goettingen University)

Administrative responsibilities at higher education institutions

2019–	Responsible professor of the prospective UNITE! international joint MSc programme Communication, Intelligence and Automation
2017–	Responsible professor of the Aalto ELEC English BSC programme Digital Systems and Design

Member on international peer review committees for funding applications

2013–	DAAD (German Academic Exchange Service) in the frame of the FIT Worldwide programme
2020–	NCSTE (National Centre of Science and Technology Evaluation) as an international Expert reviewer

Experience as referee for scientific or scholarly journals

ACM IMWUT/UbiComp (2012–), IEEE PerCom (2014–), IEEE Computer (2016–), IEEE Transactions on Vehicular Technology (2017–), IEEE Transactions on Mobile Computing (2014–), IEEE VTC (2012–), IEEE Internet of Things Journal (2017–), IEEE Journal on selected topics in signal processing (2017), Elsevier Pervasive and Mobile Computing (2017–), IEEE Transactions on Emerging Topics in Computing (2016–), ...

Invited International Keynote lectures

03.2018	Information Energy Conference, Amsterdam;
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