

CV Prof. Dr.-Ing. Tanja Schultz (February 2021)



Business Address:

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Personal Data: Born February 6, 1964 in Oldenburg i.O., Germany, German citizen

Professional Preparation and Appointments:

- Since 4/2015: Full Professor (tenured), Chair for Cognitive Systems, University Bremen
2007-2015: Full Professur (tenured), Chair for Cognitive Systems, Department of Informatics, Karlsruhe Institute of Technology, Karlsruhe, Germany
2000-2007: Research Professor / Adjunct Professor (since 2014), Language Technologies Institute (LTI), Carnegie Mellon University (CMU), Pittsburgh, PA USA; 2002-2007 Research Scientist, LTI CMU; 2001-2002 Research Associate, LTI CMU; 9-12/2000 Postdoc at the Interactive Systems Laboratories, CMU
Until 6/2000: Doctoral Degree in Computer Science, University of Karlsruhe, Germany; Diploma degree in Computer Science (1995); Masters in Mathematics (1989), Sport, Physical Education and Educational Science (1989) Uni Heidelberg.

Current Positions:

- since 2020 Board of Trustees Fraunhofer Institute for Digital Media Technology (IDMT)
since 2020 Chair of the Advisory Board of the UKRI Centre for Doctoral Training in Speech and Language Technologies, University of Sheffield, UK
since 2019 Member of the Board of Directors, Leibniz-Science Campus
since 2019 Speaker of high-profile area Minds, Media, Machines at University Bremen
since 2016 Member of the ISCA International Advisory Board
since 2007 Director of the Cognitive Systems lab
since 2003 Founder of Xlingual LLC and Co-owner of Xlingual GmbH & Co KG

Educational Awards and Honors:

- 2020 IEEE Fellow; Google Faculty Research Award
2019 Best Student Paper Award BIODEVICES on Human Activity Recognition with H. Liu
2018 BCI Award 3rd place Brain-to-Speech with Herff, Diener, Mugler, Slutzky, Krusienski
2017 Elected member of the European Academy of Sciences and Arts
2016 ISCA Fellow; Frontiers "100 Articles in the Spotlight" for "Brain-to-Text: Decoding spoken sentences from phone representations" (top-4 of 12.500 publications 2015)
2015- ICSA / EURASIP Best journal paper award Speech Communication Journal; Best Student Paper Award BIOSIGNALS with Georgi/Amma; 2013 Otto Haxel Award with Amma/Georgi; Google Faculty Research Award; Best Student Paper Award Biosignals with Wand, Janke, Schulte; Geographic Finalist Europe IEEE Engineering in Medicine and Biology Society with Heger, Putze and Herff; 2012 Research Award Technical Communication 2012 from Alcatel-Lucent Stiftung; Best Paper Wearable Computing,

with Amma and Georgi; 2011 PLUX Wireless Biosignals Award with Amma and Gehrig; 2010 Best Student Paper Finalist, Social Robotics with Heger and Putze; 2009 Best selected Papers BIOSTEC with Wand; 2008 Best selected Papers BIOSTEC with Jou; 2006 ISCA Best Demo Award at Interspeech; 2005 CMU-LTI Junior Faculty Chair; 2002 ICSA Best paper award Speech Communication; Allen Newell Medal for Research Excellence, CMU; 2001 FZI outstanding dissertation Award

Patents, Inventions: 2 patent granted, 1 pending, 3 inventions, data and software licenses

Professional Work and Project Experience: Intuitive and adaptive man-machine interfaces, machine learning, methods and algorithms for real-time processing, recognition, and interpretation of biosignals such as speech, motion, as well as muscle and brain activity (EMG, EEG, fNIRS, EcoG), multilingual speech processing, real-time demonstrators such as Brain-to-Text, Silent Speech Interfaces, Intelligent Bandages, Airwriting. Complete list of current and past grants and project links can be found at <https://www.uni-bremen.de/csl/projekte>.

Evidence of External Reputation:

Fellow of IEEE (2020), ECAS (2017), ISCA (2016)

- **President, Board Member:** ISCA Fellow Committee (since 2017), International Advisory Council (since 2016), President of ISCA (2013-2015), ISCA Board (2006-2015), Founding member Institute for Future Technologies (2013, KIT), Steering Committee Anthropomatics & Robotics (2010-2015), Marsilius-Kolleg University Heidelberg (since 2015).
- **Consulting:** Various commercial and academic institutions for Multilingual Speech Processing, Biogsignals and Interfaces, web-based tutoring systems.
- **Invited Panels and Expert Groups:** German Ethics Council on man and machine (2021), Multilingual Speech Government of India (2020), Exploratory Seminar at the Radcliffe Institute (2020); since 2001 numerous expert groups and round tables with international organizations NSF, JSPS, DFG, BMBF, Zientzia Foroa, INSTICC, DoE, DARPA, ECRIM, EU.
- **Invited Talks:** more than 150 invited talks and keynotes at major conferences, e.g. Interspeech (2019), ICASSP (ETON, 2020), ASRU, IROS, Biosignals.

External Professional Activities

- **Memberships:** Brain Computer Interface Society (since 2015), IEEE (F 2020, M2000), European Academy of Sciences and Arts (F 2017), International Speech Communication Association (ISCA, F 2016, M 2000), Gesellschaft für Informatik (GI, since 1990).
- **Conference and Program Committees:** Chair/Co-Chair Interspeech, Program Chair ICMI, Biosignals, ASRU, KI, IWSLT, HLT; TPC Interspeech (since 2008), SLTU, SLT, ISUC, CogSys, ICASSP, PhyCS, ICPRAM, SLSP, ITG, numerous conferences as reviewer.
- **Associate Editor und Reviewer for Journals:** Associate Editor ACM Transactions on Asian Language Information Processing (since 2010), Editorial Board Speech Communication (since 2004), Associate Editor for IEEE Transactions on Speech and Audio Processing (2002-2004); Reviewer for Frontiers, JAIR, CSL, IJEC, SpeechCom, IEEE T-ASL.

Publications

Publications are online available at <http://csl.uni-bremen.de>, as copyrights permit. ORCID number is 0000-0002-9809-7028. As of January 2021 I published over 430 publications in books, journals, peer-reviewed conference proceedings with over 12.300 citations (google scholar), h-index 59 (google scholar), 53 (semantic scholar), 38 (scopus), and more than 570 highly influential citations (semantic scholar).