

Probability Mass Estimation in Tensors with Hidden Elements Using Structure

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Biography

Martin Haardt has been a Full Professor in the Department of Electrical Engineering and Information Technology and Head of the Communications Research Laboratory at Ilmenau University of Technology, Germany, since 2001.

After studying electrical engineering at the Ruhr-University Bochum, Germany, and at Purdue University, USA, he received his Diplom-Ingenieur (M.S.) degree from the Ruhr-University Bochum in 1991 and his Doktor-Ingenieur (Ph.D.) degree from Munich University of Technology in 1996.

In 1997 he joined Siemens Mobile Networks in Munich, Germany, where he was responsible for strategic research for third generation mobile radio systems. From 1998 to 2001 he was the Director for International Projects and University Cooperations in the mobile infrastructure business of Siemens in Munich, where his work focused on mobile communications beyond the third generation. During his time at Siemens, he also taught in the international Master of Science in Communications Engineering program at Munich University of Technology.

In 2018, Martin Haardt has been named an IEEE Fellow “for contributions to multi-user MIMO communications and tensor-based signal processing.” He has received the 2009 Best Paper Award from the IEEE Signal Processing Society, the Vodafone (formerly Mannesmann Mobilfunk) Innovations-Award for outstanding research in mobile communications, the ITG best paper award from the Association of Electrical Engineering, Electronics, and Information Technology (VDE), and the Rohde & Schwarz Outstanding Dissertation Award.

In the fall of 2006 and the fall of 2007, he was a visiting professor at the University of Nice in Sophia-Antipolis, France, and at the University of York, UK, respectively. From 2012 to 2017, he also served as an Honorary Visiting Professor in the Department of Electronics at the University of York, UK, and in 2019 as an Invited Professor at the Université de Lorraine in Nancy, France.

His research interests include wireless communications, array signal processing, high-resolution parameter estimation, as well as numerical linear and multi-linear algebra.

Prof. Haardt has served as an Associate Editor for the IEEE Transactions on Signal Processing (2002-2006 and 2011-2015), the IEEE Signal Processing Letters (2006-2010), the Research Letters in Signal Processing (2007-2009), the Hindawi Journal of Electrical and

Computer Engineering (since 2009), the EURASIP Signal Processing Journal (2011-2014), as a senior editor for the IEEE Journal of Selected Topics in Signal Processing (JSTSP, since 2019), and as a guest editor for the EURASIP Journal on Wireless Communications and Networking as well as the IEEE JSTSP.

From 2011 to 2019 he was an elected member of the Sensor Array and Multichannel (SAM) technical committee of the IEEE Signal Processing Society, where he served as the Vice Chair (2015 – 2016), Chair (2017 – 2018), and Past Chair (2019). Since 2020, he has been an elected member of the Signal Processing Theory and Methods (SPTM) technical committee of the IEEE Signal Processing Society. Moreover, he has served as the technical co-chair of PIMRC 2005 in Berlin, Germany, ISWCS 2010 in York, UK, the European Wireless 2014 in Barcelona, Spain, as well as the Asilomar Conference on Signals, Systems, and Computers 2018, USA, and as the general co-chair of WSA 2013 in Stuttgart, Germany, ISWCS 2013 in Ilmenau, Germany, CAMSAP 2013 in Saint Martin, French Antilles, WSA 2015 in Ilmenau, SAM 2016 in Rio de Janeiro, Brazil, CAMSAP 2017 in Curacao, Dutch Antilles, SAM 2020 in Hangzhou, China, and the Asilomar Conference on Signals, Systems, and Computers 2021, USA.