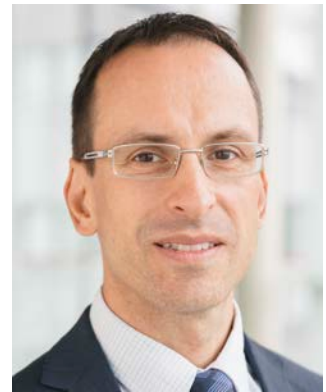


Curriculum Vitae

Prof. Dr.-Ing. Dr. rer. nat. habil. Harald Schenk



Academic achievements & scientific qualification

- 2012 Appointment to professorship for Micro and Nanosystems at BTU Cottbus-Senftenberg
- 2008 Habilitation in Physics; title: "Silicon based microoptical modulators"
- 2001 VDE dissertation award
- 2001 PhD degree from the Gerhard-Mercator-University, Duisburg; title: "A novel micro actuator for 1D and 2D deflection of light", valuation: *with distinction*;
- 1997 – 1999 work on PhD thesis in electrical engineering at the Fraunhofer Institute for Microelectronic Circuits and Systems (IMS), Dresden; focus on development of a CMOS compatible process for a 1D and 2D micro scanner incl. design and characterization of the scanner
- 1996 Diploma in Physics
Diploma thesis: "Time-resolved photoluminescence measurements of the internal Mn²⁺-transition and porous silicon"
- 1990 – 1996 Studies of Physics at the Julius-Maximilians-University in Wuerzburg, Germany

Professional career

- Since 2013 Director of Fraunhofer IPMS
- 2012 – 2017 Head of Fraunhofer project group "Mesoscopic Actuators and Systems"
- 2004 – 2013 Deputy director of Fraunhofer Institute for Photonic Microsystems (IPMS); head of business unit "Micro Scanner Devices"
- 2006 Co-founder of HiperScan (NIR micro spectrometers and spectroscopic solutions)
- 2002 – 2005 Head of department "Micro Actuator Systems and Technology"; focus on MEMS scanner devices, micro mirror arrays for micro lithography and adaptive optics; Program manager for the Spatial Light Modulator development
- 2000 – 2002 Head of the group "Scanning Micro Mirrors and Inertial Sensors" at Fraunhofer Institute for Microelectronic Circuits and Systems (IMS); focus on MEMS scanner devices, acceleration sensors and gyroscopes

Memberships

- SPIE member
- VDI/VDE member

- Member of Fraunhofer Vintage-Class (2007-2012)

Services within the scientific community

- Article review for various journals
- Tutorial Chair of the ICICDT – International Conference on IC Design & Technology (2021)
- IEEE Conference Chair “Optical MEMS and Nanophotonics” Summer School (2021)
- Founding Editorial Board Member Journal “Optical Microsystems” (2020)
- Member of DFG review board electrical engineering (2018 – 2020)
- Various expert activities e. g. for DFG, SSF (Swedish Foundation for Strategic Research)
- IEEE Conference Steering Committee “Optical MEMS and Nanophotonics” (2014)
- Conference Program Committee “MEMS, MOEMS and Micromachining”, part of SPIE Photonics Europe (2013-2019)
- Senior Editor “Journal for Micro/Nanolithography, MEMS and MOEMS” (2012 – 2020)
- IEEE Conference Co-Chair “Optical MEMS and Nanophotonics” Summer School (2011)
- Symposium Chair “MOEMS/MEMS”, part of SPIE Photonics West (2010 – 2013)
- Conference Chair “MOEMS Display and Imaging”, part of SPIE Photonics West Symposium “MOEMS/MEMS” (2007 – 2012)
- Associate Editor “Journal for Micro/Nanolithography, MEMS and MOEMS” (2006 – 2012)

Publications

- Author/Co-Author of more than 30 journal papers, 160 conference papers and 28 patents/patent applications
- Several contributions to book chapters
- Co-Editor of several conference proceedings

Research focus

- Micromachining, MEMS, optical MEMS
- CMOS compatible MEMS process development
- Micro and nano actuators/sensors
- Micro loudspeakers, micro scanners, micro mirror arrays
- System integration of micro sensors and application development