

IEEE Standards Association (IEEE-SA): Advancing Technology, Businesses, and Careers

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University of Applied Sciences Technikum Wien

Introduction to IEEE



Peter Rössler
*UAS Technikum Wien,
Past Chair IEEE Austria Section
(2012-2014)*

- Received Diploma and Ph.D. from the Vienna University of Technology
- Currently a Professor at the "University of Applied Sciences Technikum Wien" in Vienna/Austria where he teaches and manages R&D projects in the area of embedded computing systems
- Main research interests cover topics in the area of microelectronics (FPGA, ASIC and ESL design) as well as control networks
- Co-founder of a company related to building automation systems
- Author of 50+ publications
- Member of various program committees of national and international scientific conferences
- Engaged in boards of national organizations like the Austrian Electrotechnical Association (OVE) and the Austrian Society of Microelectronic Systems

IEEE-SA and How Standardization Can Enhance Your Business and Career



Yatin Trivedi
*Synopsys, Inc.,
Past Chair and Current Member of
IEEE Standards Education Committee,
Vice Chair, Design Automation
Standards Committee*

- Director of Standards and Interoperability Programs at Synopsys
- Editor-in-chief of the IEEE Standards Education eZine, and also works closely with the Synopsys University program
- Treasurer of IEEE-SA Board of Governors; chair of Industry Connections Committee; vice chair of IEEE-SA Corporate Advisory Group, member of IEEE-ISTO Board of Directors
- Vice chair of Design Automation Standards Committee (DASC); editor of IEEE Std 1364-1995 and IEEE Std 1364-2001
- Treasurer of Accellera Board of Directors
- Co-authored first book on Verilog HDL (1990)
- Received B.E. from BITS, Pilani and M.S. Computer Engineering from Case Western Reserve University
- Senior Member of IEEE and member of IEEE's honor society IEEE-HKN (Eta Kappa Nu)

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Internet of Things Enabling Smart Cities



Bruce Kraemer
*Marvell Semiconductor,
Inc., President of IEEE-SA,
Past Chair of IEEE 802.11
Working Group*

- President of IEEE Standards Association for 2015 and 2016; chairs IEEE-SA Board of Governors and sits on IEEE Board of Directors
- Active in IEEE activities since 1996
- Within the IEEE, recently completed 6 years serving as 802.11 chair, and additionally within the IEEE-SA has been a member of RevCom, AudCom and the Board of Governors
- Has participated in various standards development organizations such as ETSI BRAN, ITU-R, GSC and ISO/JTC1, as well as in industry groups such as NIST/Smart Grid Interoperability Panel, Open SG, Bluetooth, ZigBee and the Wi-Fi Alliance
- Senior Manager of Strategy and Standards for Marvell Semiconductor
- Holds B.S. degree in Chemistry from MIT and Masters in Management Science from Worcester Polytech

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Smart Grids



Gary Hoffman
*Advanced Power Technologies,
 Member of IEEE Power &
 Energy Society and IEEE-SA
 Standards Board*

- Founder, president, and CEO of Advanced Power Technologies
- Previously held various leadership positions with ALSTOM and RFL Electronics
- Holds 9 patents
- Fellow member of IEEE; member of the IEEE Transformers Committee, Chair of Working Groups C57.12.10 and C57.116, Vice Chair of PC57.163.
- Member of the IEEE-SA Standards Board, member AudCom and ICCOM past member of RevCom ProCom, and PatCom.
- Author of Chapter 24, "On-Line Monitoring of Liquid-Immersed Power Transformers," of *Electric Power Transformer Engineering* (James H. Harlow, ed)
- Contributor to Chapter 9, "Monitoring and Diagnostics," of EPRI's *The Copper Book*
- Holds B.S. Engineering and M.S. Electrical Engineering from State University of New York at Stony Brook

eHealth



FH-Prof. DI Dr. Stefan Sauermann
*UAS Technikum Wien,
 IEEE 11073 Personal Health Devices
 Working Group Member*

- Program Director of Biomedical Engineering Sciences Master degree at University of Applied Sciences (UAS) Technikum Wien
- Key researcher in the Research Focus "eHealth" at UAS Technikum Wien and coordinates this topic in the Department for Biomedical Engineering
- Started as a researcher at the Medical University of Vienna, Department for Biomedical Engineering and Physics
- Active in national and international projects, connected to the implementation of the electronic healthcare record in Austria (ELGA)
- Chaired the Austrian mirror committee "Medical Informatics" to ISO TC215 and CEN TC 251 from 2003 to 2015
- Contributes to standardization within IEEE, HL7 and as founding member of IHE Austria
- Moderates "Interoperability-Standards" workgroup in the Austrian e-Health Initiative (eHI) of the Austrian Ministry of Health

Break

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Intelligent Transportation



Dr. Yu Yuan
*Cate Global,
Chair of IEEE Standards
Coordinating Committee on
Transportation,
Member of IEEE-SA
Standards Board*

- President of Cate Global
- CEO of Motiveware Technology Co., Ltd.
- Previously worked on Strategy, Ecosystem & Partnership for IBM Research-China and contributed to IBM IoT Technology Center
- Has filed numerous patents and received many IBM Invention Achievement awards and IBM High Value Patent awards
- Has published extensively in conference proceedings and journals, and has organized many major conferences
- Holds various leadership positions within IEEE and chairs standards activities related to transportation, consumer electronics, transportation electrification, software infrastructure, and vehicular technology

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Cloud Computing & Data Analytics



Xiaohui Liu
*Huawei Technologies
Corporation Ltd,
Member IEEE-SA New
Standards Committee and
Industry Connections
Committee*

- Received Masters from Beihang University (BUAA), Beijing, China and Bachelor from University of Electronic Science and Technology of China
- Currently Director of IT and Vertical Industry Standards (Including Cloud computing, Big Data etc.) at Huawei, in charge of standardization and Industry promotion strategy
- Worked 16 years for Siemens (JV) before he joined Huawei. Rich engineering, R&D and standardization experience in the telecommunications field
- Engaged in boards of international/industry/China standards development organizations including ISO/IEC JTC1, ITU-T, IEEE, ETSI, DMTF, CCSA, CNITS, 3cpp, etc.

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Software-Defined Networks



Glenn Parsons
*Ericsson,
Chair of IEEE 802.1
Working Group,
Member of IEEE-SA
Standards Board*

- Standards advisor with Ericsson Canada, where he coordinates standards strategy and policy, including network architecture for LTE mobile backhaul
- Previously held positions in development, product management and standards architecture in the ICT industry
- Has held several management and editor positions in various standards activities including IETF, IEEE, and ITU-T
- Has been an active participant in the IEEE-SA Board of Governors, Standards Board and its Committees since 2004
- Currently involved with mobile backhaul standardization in MEF, IEEE and ITU-T and is chair of IEEE 802.1
- Technical Editor for IEEE Communications Magazine
- Received B.Eng. in electrical engineering from Memorial University of Newfoundland

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Panel: **Standards – Relevance – Policy**



**Peter
Rössler**



**Yatin
Trivedi**



**Bruce
Kraemer**



**Gary
Hoffman**



**Stefan
Sauermann**



Yu Yuan



Xiaohui Liu



**Glenn
Parsons**

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Concluding Remarks

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