

Keynotes

Keynote 1: A Unified Design of Wireless Information and Power Transmission (WIPT)

Prof Dong In Kim (Sungkyunkwan University)

Speaker's short bio: Dong In Kim received the Ph.D. degree in electrical engineering from the University of Southern California, Los Angeles, CA, USA, in 1990. He was a Tenured Professor with the School of Engineering Science, Simon Fraser University, Burnaby, BC, Canada. Since 2007, he has been with Sungkyunkwan University (SKKU), Suwon, Korea, where he is currently a Professor with the College of Information and Communication Engineering. Dr. Kim is a first recipient of the NRF of Korea Engineering Research Center in Wireless Communications for RF Energy Harvesting (2014-2021). From 2002 to 2011, he served as an Editor and a Founding Area Editor of Cross-Layer Design and Optimization for the IEEE Transactions on Wireless Communications. From 2008 to 2011, he served as the Co-Editor-in-Chief of the IEEE/KICS Journal of Communications and Networks. He served as the Founding Editor-in-Chief of the IEEE Wireless Communications Letters from 2012 to 2015. From 2001 to 2014, he served as an Editor of Spread Spectrum Transmission and Access for the IEEE Transactions on Communications. He is currently serving as an Editor-at-Large of Wireless Communication I for the IEEE Transactions on Communications.

Keynote 2: Wireless Powered Communication Systems as an Enabling Technology for the Internet of Things: Overview, Recent Results, and Challenges

Prof Robert Schober (University of Erlangen Nuremberg, Germany)

Speaker's short bio: Robert Schober (S'98, M'01, SM'08, F'10) was born in Neuendettelsau, Germany, in 1971. He received the Diplom (Univ.) and the Ph.D. degrees in electrical engineering from the Friedrich-Alexander-University of Erlangen-Nurnberg (FAU), Germany, in 1997 and 2000, respectively. From May 2001 to April 2002 he was a Postdoctoral Fellow at the University of Toronto, Canada, sponsored by the German Academic Exchange Service (DAAD). From 2002-2011, he was a Professor at the University of British Columbia (UBC), Vancouver, Canada. Since January 2012 he is an Alexander von Humboldt Professor and the Chair for Digital Communication at FAU. His research interests fall into the broad areas of Communication Theory, Wireless Communications, and Statistical Signal Processing.

Dr. Schober received several awards for his work including the 2002 Heinz Maier-Leibnitz Award of the German Science Foundation (DFG), the 2004 Innovations Award of the Vodafone Foundation for Research in Mobile Communications, the 2006 UBC Killam Research Prize, the 2007 Wilhelm Friedrich Bessel Research Award of the Alexander von Humboldt Foundation, the 2008 Charles McDowell Award for Excellence in Research from UBC, a 2011 Alexander von Humboldt Professorship, and a 2012 NSERC E.W.R. Stacie Fellowship. In addition, he received several best paper awards. Dr. Schober is a Fellow of the Canadian Academy of Engineering and a Fellow of the Engineering Institute of Canada. From 2012-2015 he served as Editor-in-Chief of the IEEE Transactions on Communications. He is currently the Chair of the Steering Committee of the new Communication Society (ComSoc) journal IEEE Transactions on Molecular, Biological and Multiscale Communication and serves on the Editorial Board of the Proceedings of the IEEE. Furthermore, he is a Member-at-Large of the Board of Governors and a Distinguished Lecturer of ComSoc.

Keynote 3: Recent Advances in Energy Harvesting Communications: Online Algorithms, Age of Information and Temperature Considerations

Prof Sennur Ulukus (University of Maryland)

Speaker's short bio: Sennur Ulukus is a Professor of Electrical and Computer Engineering at the University of Maryland at College Park, where she also holds a joint appointment with the Institute for Systems Research (ISR). Prior to joining UMD, she was a Senior Technical Staff Member at AT&T Labs-Research. She received her Ph.D. degree in Electrical and Computer Engineering from Wireless Information Network Laboratory (WINLAB), Rutgers University, and B.S. and M.S. degrees in Electrical and Electronics Engineering from Bilkent University. Her research interests are in wireless communications, information theory, signal processing, and networks, with recent focus on information theoretic physical layer security, private information retrieval, energy harvesting communications, and wireless energy and information transfer.

Dr. Ulukus is a fellow of the IEEE, and a Distinguished Scholar-Teacher of the University of Maryland. She received the 2003 IEEE Marconi Prize Paper Award in Wireless Communications, an 2005 NSF CAREER Award, the 2010-2011 ISR Outstanding Systems Engineering Faculty Award, and the 2012 ECE George Corcoran Education Award. Dr. Ulukus is on the Editorial Board of the IEEE Transactions on Green Communications and Networking (2016-). She was an Editor for the IEEE Journal on Selected Areas in Communications-Series on Green Communications and Networking (2015-2016), IEEE Transactions on Information Theory (2007-2010), and IEEE Transactions on Communications (2003-2007). She was a Guest Editor for the IEEE Journal on Selected Areas in Communications (2015 and 2008), Journal of Communications and Networks (2012), and IEEE Transactions on Information Theory (2011). She was a general TPC co-chair of 2017 IEEE ISIT, 2016 IEEE Globecom, 2014 IEEE PIMRC, and 2011 IEEE CTW.

Keynote 4: Recent Advances in Far and Near Field Wireless Power Transfer: Power Waveform Design and Magnetic MIMO Optimization

Speaker: Prof Rui Zhang (National University of Singapore)

Speaker's short bio: Dr Rui Zhang received the Ph.D. degree from Stanford University in electrical engineering. He is now a Dean's Chair Associate Professor in the Department of Electrical and Computer Engineering, National University of Singapore. His current research interests include energy-efficient and energy-harvesting-enabled wireless communications, wireless information and power transfer, MIMO communications, cognitive radio, cooperative communication, UAV communication, wireless communication surveillance, and optimization methods. He has published over 270 papers, which have been cited more than 18,000 times. He was the recipient of the 6th IEEE Communications Society Asia-Pacific Region Best Young Researcher Award, and the Young Researcher Award of National University of Singapore. He was the co-recipient of the IEEE Marconi Prize Paper Award in Wireless Communications, the IEEE Signal Processing Society Best Paper Award, and the IEEE Communications Society Heinrich Hertz Prize Paper Award. He has been listed as a Highly Cited Researcher by Thomson Reuters since 2015. He is a Fellow of IEEE.

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