

## Foreword about Ray-Guang Cheng, Professor, Department of Electronic and Computer Engineering, National Taiwan University of Science and Technology:

Ray-Guang Cheng was born in Taipei, Taiwan in 1969. He received the B.E., M.E., and Ph.D. degrees in communication engineering from National Chiao Tung University, Taiwan, in 1991, 1993, and 1996, respectively. From 1997 to 2000, he was with Advance Technology Center, Computer and Communication Laboratories, Industrial Technology Research Institute (ITRI), Taiwan, as a researcher and a project leader. From 2000 to 2003, he joined BenQ Mobile System Inc., Taiwan, as a senior manager of R&D division. He is currently a Professor with the Department of Electronic and Computer Engineering, National Taiwan University of Science and Technology (NTUST), Taiwan. His research interests include multi-hop wireless networks and machine-to-machine communications.



Ray-Guang Cheng

Prof. Cheng is a senior member of IEEE Communication Society; a member of Industry Advisory Board (IAB), Wireless Communication Engineering Technologies (WCET) certification program, IEEE Communications Society; and a member of Phi Tau Phi scholastic honor society. He has published more than 80 international journal and conference papers; more than 30 IEEE/3GPP standard contributions; and held 17 US patents. He led the 3G Protocol project and his team was named Top Research Team of the Year by ITRI in 2000. He received the Best Industrial-based Paper Award from Ministry of Education in 1998; Advanced Technologies Award from Ministry of Economic Affairs in 2000; and Teaching Award, Research Award, and Excellence in Counseling Award from NTUST in 2006, 2009, and 2011, respectively.

Dear readers,

It is my great honor to write down a few words about the 13th International Conference on Knowledge in Telecommunication Technologies and Optics (KTTO 2013) from which interesting topics for the Advances in Electrical and Electronic Engineering special edition were selected. KTTO 2013 was organized by the Department of Telecommunications of VSB - Technical University of Ostrava and the Department of Telecommunications and Multimedia of the University of Zilina. It was held in Hotel Belaria near Hradec nad Moravici in the Czech Republic from September 4th to 6th, 2013.

The conference continues the successful editions of KTTO and offers an excellent opportunity for young scientists to establish their new collaborations, ideas of research projects and to present their recent research results. I was lucky to involve in projects for deploying GSM networks in Taiwan, designing GPRS and UMTS air interface protocols, and participating in 3GPP and IEEE standard meetings. The combination of theory and practice in the form of product-driven projects has always brought us new challenges forced us to expand our knowledge, and taught us to think from the whole system point of view. The next generation mobile communication systems are expected to utilize single and unified air-Interface to offer high-speed data transmission for massive connectivity. The conference KTTO 2013 is organized to indicate the same trend. New information, recently achieved advances and knowledge of wireless and optical communications intensively developing these days. Results from the field of radio, WiFi, and wireless network; applied electronic; networks and network simulation; optical networks and optical measurement; telecommunications; and text and speech processing were presented.

Before I conclude, I would like to express my respect to the KTTO conference team and Advances in Electrical and Electronic Engineering journal team for the work they do and to wish them a great deal of high quality articles and reviews in the future.