

Biography of Yang Hao



Yang Hao received the Ph.D. degree from the Centre for Communications Research (CCR) at the University of Bristol, U.K. in 1998. From 1998 to 2000, he was a postdoc research fellow at the School of Electrical and Electronic Engineering, University of Birmingham, U.K. In May 2000, he joined the Antenna Engineering Group, Queen Mary College, University of London, London, U.K. first as a lecturer and was promoted to Reader in 2005 and to Professor in 2007.

Professor Hao is active in a number of areas including computational electromagnetics, electromagnetic bandgap structures and microwave metamaterials, antennas and radio propagation for body centric wireless networks, active antennas for millimetre/submillimetre applications and photonic integrated antennas. His work on metamaterials and body-centric wireless communications has been reported in the *Engineer(I)*, the *Engineer (II)*, *Electronics Times*, *Microwave Engineering* and the *IET E&T Magazine*. He is a co-editor of book “Antennas and Radio Propagation for Body-Centric Wireless Communications” (Artech House, 2006). He has published over 200 technical papers (book chapters, Journal papers and conference publications) and served as an invited (ISAP07) and keynote speaker (ANTEM05), a conference organizer and session chair at many international conferences.

Professor Hao is an associate editor for *IEEE Antennas and Wireless Propagation Letters*, an associate editor and a guest editor for *IEEE Transactions on Antennas and Propagation*. He is a Senior Member of IEEE and also a member of Technical Advisory Panel of IET Antennas and Propagation Professional Network. He is elected as a Fellow of ERA Foundation in 2007.

“Discrete Transformation Electromagnetics and its Applications in Antenna Design”

ABSTRACT: Current designs of electromagnetic cloaks are largely based on the use of metamaterials and a technique so-called "transformation optics/electromagnetics". Free space cloaks require extreme materials which are difficult to implement in practice, however, the theory of "transformation optics/electromagnetics" offers a useful design tool for antenna engineers in developing novel antennas. In this talk, the theorem of discrete transformation electromagnetics is introduced and later applied to the design of flat lens and reduction of antenna mutual coupling.

Yang Hao

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