

Dr. Tetsuki Taniguchi received his B.E. and M.E. degrees in Electrical Engineering from Tokyo Metropolitan University, Tokyo, Japan, in 1989, 1991, respectively, in the field of the analysis of crystal oscillators based on differential equations and FEM. He received the Dr. Eng. degree in the field of multidimensional digital signal processing in 1996, from Kanazawa University, Kanazawa, Japan, where he worked as a research assistant at the Department of Electrical and Information Engineering (acoustic wave processing), and at the Laboratory of Magnetic Field Control and Applications (MAGCAP) (image processing). Since 2001, he is with The University of Electro-Communications (UEC), Tokyo, Japan, where he is currently a Researcher of the Department of Communication Engineering and Informatics, and Advanced Wireless Communication research Center (AWCC).



His current research interest includes signal processing in digital wireless communications and analysis of radio propagation channels. Particularly, since he started his career in communication engineering in UEC, he has been interested in antenna arrays including MIMO system, and developed many design approaches of broadband multiantenna systems, and revealed some statistical natures of MIMO channels as random matrices which were conventionally unsolved. He is an author of about 150 peer reviewed journal and conference papers (and the first author of more than the half of them which are actually written by himself as well as the research scenarios and computer programs) in IARIA, IEEE, The Institute of Electronics, Information, and Communication Engineering (IEICE), The Institute of Electrical Engineers of Japan (IEE), and so on.

He has been involved in various professional research activities as a chair, co-chair, and member or secretariat of program committee in some international conferences such as IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, and European Conference on Antennas and Propagations.

He has been involved in the activity of IARIA since 2006, and he has published and actually presented his study by himself almost every year in one of IARIA conferences: International Conference on Digital Telecommunications (ICDT), International Conference on Systems and Networks Communications (ICSNC), and International Conference on Wireless and Mobile Communications (ICWMC).