



学术报告会

时 间: 2021年5月17日(周一) 15:00-17:00 地 点: 电信群楼4号楼1楼交大E谷-悟课剧场 邀请人: 王易因

Statistical-CSI-Aided Adaptive Transmission Designs over Underwater Acoustic Channels Rongxin Zhang

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Abstract:

Underwater acoustic channel (UAC) is featured as fast time-varying characteristic, and challenges the transmission designs. Due to the feedback delay and the channel variations, transmission designs utilizing the statistics of the channel state information (CSI) would be more appropriate with great practical significance. This talk will shed light upon my relevant research work and will be divided into two parts. The first part will review the general designs for adaptive transmissions, and the second part will emphasize the adaptive designs with the second-order statistics of the CSI available at the transmitter. Implications for future research will also be discussed.

Biography:

Rongxin Zhang received his Ph.D. degree in Informatics and Communication Engineering from Xiamen University, Xiamen, China in 2019. He is currently a postdoctor with the School of Electronic Science and Engineering (National Model Microelectronics College), Xiamen University, Xiamen, China. He was with Georgia Tech as a visiting student during 2016-2018. His research interests fall in the general area of underwater acoustic communication and networking, signal processing, and machine learning. He is now in charge of the grant 62001404 of the National Natural Science Foundation of China.