Energy Efficient 6G Resource Optimization and Management

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Abstract: This talk will identify and discuss technical challenges and recent results related to Energy Efficient 6G Resource Optimization and Management. The talk is mainly divided into four parts. The first part will introduce 6G mobile networks, discuss the 6G mobile networks architecture, and provide some main technical challenges in 6G mobile networks, with consideration of data perception and process. The second part will focus on the issue of energy-efficient resource management in 6G networks and provide different recent research findings that help to develop engineering insights. The third part will address the machine learning and deep learning method based future 6G networks and address some key research problems. The last part will summarize by providing a future outlook of 6G mobile network optimization strategies with high energy efficiency.