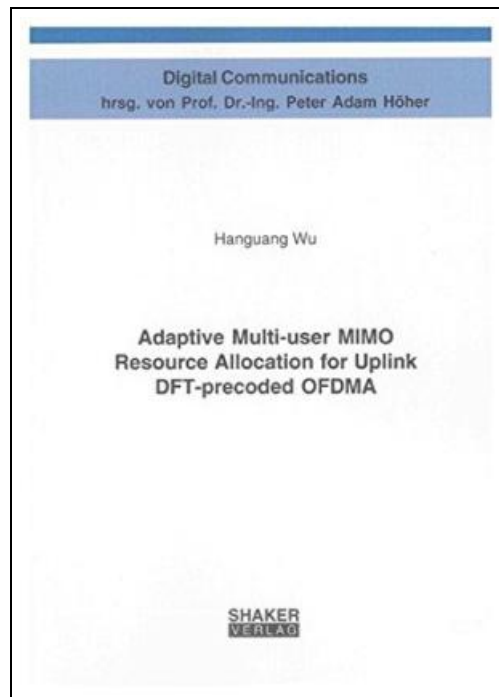


Adaptive Multi-user MIMO Resource Allocation for Uplink DFT-precoded OFDMA



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(Prof. Beulah Stark)

ADAPTIVE MULTI-USER MIMO RESOURCE ALLOCATION FOR UPLINK DFT-PRECODED OFDMA



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Shaker Verlag Nov 2010, 2010. Buch. Condition: Neu. Neuware - The discrete Fourier transform (DFT) precoding is able to reduce the peak-to-average power ratio (PAPR) of OFDMA (orthogonal frequency-division multiple access) waveforms without requiring any additional signaling overhead. This technique, combined with various sub-carrier allocation methods, has been proposed for uplink transmission in future wideband wireless communication systems, such as the 3GPP UMTS Long Term Evolution (LTE) and the European Union 4G project WINNER. This thesis focuses on the uplink resource allocation problem in the framework of DFT-precoded OFDMA systems, where adaptive resource assignment according to the channel conditions to optimize the system performance is considered. Specific aspects of high-performance, cost-effective practical solutions are investigated. Different settings regarding the number of available antennas at the transmitter and the receiver are discussed. At the beginning, we propose a new structure which associates multiple DFT-precodings with a single user equipment (UE) to overcome the limitations in conventional DFT-precoded OFDMA. The proposed structure allows a more flexible use of the frequency resources in the system and enables multiple services for users with different quality of service and error protection requirements. We study both the PAPR and the achievable spectral efficiency for different transmitter structures in LTE uplink scenarios. Additionally, we show potential performance improvements by applying spectrum shaping for the cell-edge UEs. We further focus on the achievable rate for a DFT-precoded OFDMA uplink system with linear equalization subject to individual power constraints of the UEs. Starting with the single user singleinput single-output (SU-SISO) system, we derive a general framework for calculating the achievable sum rate for any arbitrary assignment of the sub-carriers. Based on this, we design an optimal sub-carrier allocation algorithm to maximize the system sum rate. Furthermore, a geometrical interpretation of the above rate optimization problem is provided, along with...



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