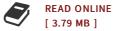


Learning Based Techniques for Intercell Interference Coordination in LTE-Advanced Heterogeneous Networks

By Meryem Simsek

Shaker Verlag Sep 2013, 2013. Taschenbuch. Condition: Neu. Neuware -Drivenbynetworkdensificationandincreasingnumberofsmart-phones, tablets, and netbooks, mobileoperatorsarecompelledtofindviablesolutionstoimprove their network performance in a costeffective manner, and tap into new revenue streams. Heterogeneous network deployments combining a range of cell sizes (femto, pico, relays) with existing macrocells are expected to become cornerstones for future cellular networks and beyond, aiming at substantially higher data rates and maximum spatial reuse by decreasing the distance between transmitters and receivers. However, these future generation wireless networks face many challenges out of which intercell interference is crucial. It is the key requirement of small cells not to interfere the existing macrocellular system while at the same time guaranteeing their own receivers' quality of service requirements. Hence, attention has been recently turned into self-organizing networks that permit improvements in system performance by automated intercell interference control and reductions in operational expenses. By considering these self-organizing capabilities, the main focus of this thesis is onlearningbasedintercellinterferencecoordinationtechniquesinheterogeneous networks overlaid by small cells (femtocells and picocells). While femtocells are modeled in a totally decentralized manner without any information exchange with the macrocellular network,

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