



## Joint Communication and Positioning based on Interleave-Division Multiplexing

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Shaker Verlag Dez 2012, 2012. Buch. Condition: Neu. Neuware - Interest in joint communication and positioning is steadily increasing because the combination of both techniques offers a wide range of advantages. On the one hand, synergy effects between communication and positioning like enhanced resource allocation can be exploited. On the other hand, new applications are enabled. Examples comprise a wide area of interest and include the automated localisation of emergency calls, tracking and guiding fire fighters or policemen on a mission, monitoring people with special needs in a hospital or a nursing home, asset tracking, location-based services and so forth. However, it is a challenging task to combine communication and positioning because their prerequisites are quite different. On the one hand, high data rates with little training overhead and low bit error rate are desirable for communication. On the other hand, localisation aims at precise position estimates. Much training is typically spent for that purpose. Given a single transmit signal supporting communication as well as positioning, it is very difficult to fulfil all requirements at the same time. Hence, a flexible configuration is desirable for a joint communication and positioning system with a unified signal structure in order to adjust...



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