

Title (en)

OTFS METHODS OF DATA CHANNEL CHARACTERIZATION AND USES THEREOF

Title (de)

OTFS-VERFAHREN ZUR DATENKANALCHARAKTERISIERUNG UND VERWENDUNGEN DAVON

Title (fr)

PROCÉDÉS OTFS DE CARACTÉRISATION DE CANAL DE DONNÉES ET LEURS UTILISATIONS

Publication

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Application

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Abstract (en)

[origin: WO2016014596A1] Computerized wireless transmitter/receiver system that automatically uses combinations of various methods, including transmitting data symbols by weighing or modulating a family of time shifted and frequency shifted waveforms bursts, pilot symbol methods, error detection methods, MIMO methods, and other methods, to automatically determine the structure of a data channel, and automatically compensate for signal distortions caused by various structural aspects of the data channel, as well as changes in channel structure. Often the data channel is a two or three dimensional space in which various wireless transmitters, receivers and signal reflectors are moving. The invention's modulation methods detect locations and speeds of various reflectors and other channel impairments. Error detection schemes, variation of modulation methods, and MIMO techniques further detect and compensate for impairments. The invention can automatically optimize its operational parameters, and produce a deterministic non-fading signal in environments where other methods would likely degrade.

IPC 8 full level

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Citation (search report)

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- See references of WO 2016014598A1

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