

Title (en)
METHOD FOR OPTIMAL ESTIMATION OF A PROPAGATION CHANNEL RELYING SOLELY ON PILOT SYMBOLS AND CORRESPONDING ESTIMATOR

Title (de)
VERFAHREN ZUR OPTIMALEN SCHÄTZUNG EINES AUSBREITUNGSKANALS UNTER AUSSCHLIESSLICHER VERWENDUNG VON PILOTSYMBOLN UND ENTSPRECHENDER SCHÄTZER

Title (fr)
PROCEDE D'ESTIMATION OPTIMALE D'UN CANAL DE PROPAGATION REPOSANT UNIQUEMENT SUR LES SYMBOLES PILOTES ET ESTIMATEUR CORRESPONDANT

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Abstract (en)
[origin: WO0223841A1] The invention concerns a method for optimal estimation of a propagation channel relying solely on pilot symbols. It consists in: constituting a base of eigenvectors from the correlation matrix of the observed channel only at the locations of the pilot symbols; breaking down the representation of the channel in said base; extending the base vectors to the given symbols, thereby producing an optimal estimation of the channel to the data symbols. The invention is applicable to OFDM, TDMA, CDMA systems.

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