

Computational Complexity Of Optimum Multiuser Detection

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Computational complexity of optimum multiuser detection

December 16th, 1986 - Computational complexity of optimum multiuser detection If the users are asynchronous the optimum multiuser detector can be implemented by a Viterbi algorithm whose time complexity is linear in the number of symbols transmitted by each user and exponential in the number of users It is shown that the combinatorial problem

Computational Complexity of Optimum Multiuser Detection

January 31st, 2019 - The performance analysis of optimum multiuser detection in terms of the set of multiuser asymptotic efficiencies is equivalent to the computation of the minimum Euclidean distance between any pair

A New Algorithm for Optimum Multiuser Detection in

February 17th, 2019 - Summary Optimum multiuser detection for Code Division Multiple Access CDMA systems requires the solution of an NP hard combinatorial optimization problem It is well known that the computational complexity of the optimum multiuser detector is exponential with the number of active users in the system

Optimum Multiuser Detection Is Tractable For Synchronous

February 13th, 2019 - that the computational complexity of the optimum multiuser detection problem is where is the number of active users because if the dimensionality of the optimum multiuser detection problem is then the number of nodes in the associated network is From rule i we observe that the capacities of the arcs not

A New Algorithm for Optimum Multiuser Detection in

September 10th, 2018 - The optimum multiuser detection problem was shown to be NP hard i e its computational complexity increases exponentially with the number of users Verdu 1986 1989

Optimum multiuser detection netlab tkk fi

February 8th, 2019 - Anyhow since in practice the computational complexities of the optimum multiuser detection algorithms are too complex to be implemented so called sub optimal detectors have been widely investigated The second goal is to study the general linear multiuser detectors and compare them to optimum multiuser and conventional single user detectors

Uplink Multiuser MIMO Detection Scheme with Reduced

February 8th, 2019 - 98 S CHO S K PARK UPLINK MULTIUSER MIMO DETECTION SCHEME WITH REDUCED COMPUTATIONAL COMPLEXITY DOI 10 13164 re 2015 0098 APPLICATION OF WIRELESS COMMUNICATIONS Uplink Multiuser MIMO Detection Scheme with Reduced Computational Complexity Soobum CHO 1 Sang Kyu PARK 2

OPTIMUM MULTIUSER DETECTION IN CDMA USING CiteSeerX

January 27th, 2019 - In this work a novel optimum multiuser detector MUD based on a particle swarm algorithm is presented The proposed algorithm outperforms the matched filter and the decorrelator multiuser detectors Moreover the performance under near"far scenario the system capacity and the computational complexity of the proposed

A Low Complexity Optimum Multiuser Receiver for DS CDMA

January 14th, 2019 - Multiuser detection is a technique to improve the capacity and coverage in a CDMA system Being a critical component of this technique the maximum likelihood ML multiuser receiver has received extensive study 15 16 17 However the computational complexity of this receiver prevents the widespread use of this technique

IEEE TRANSACTIONS ON SIGNAL PROCESSING VOL 53 NO 1

February 15th, 2019 - the same computational complexity as optimum multiuser de t ection The LCM2 algorithm has a computational complexity between the optimum detector and the original multistage PIC detector that is largely dependant on the distribution of When the computational complexity of the LCM2 algo rithm appears to be approximately constant as but

Optimum Multiuser Detection for CDMA Systems Using the

August 7th, 1993 - Although the optimum receiver for multi user detection is superior to the conventional matched filter receiver when the relative powers of the interfering signals are large the optimum receiver obtained by the maximization of a log likelihood function has a complexity that is exponential in the number of users

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