Computational Complexity Of Optimum Multiuser Detection

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Computational Complexity Of Optimum Multiuser
The optimum multiuser detector is too complex to be implemented ... They combat both ISI and MAI. The computational complexity of all four equalizers is essentially the same. All four equalizers are ...

Zero forcing and minimum mean-square-error equalization for multiuser detection in code-division multiple-access channels
Abstract: Analysis on the exact error rate of jointly optimal (JO) maximum likelihood (ML) multiuser detection is limited in the existing literature owing to its high ...

Exact SER and BER Analysis on Jointly Optimal Maximum Likelihood Detection of Two QPSK Signals with Phase Offset
Popovski, "Low-Complexity Distributed XL-MIMO for Multiuser Detection," 2020 IEEE International ... the proposed rKA-based combiner applicable to XL-MIMO systems can considerably decrease ...

Low-Complexity Distributed XL-MIMO for Multiuser Detection
The two new main contributions of this project are the drastic reduction of computational complexity by orders of magnitude and the ability to search for optimum functional forms and not simply ...

AFOSR Computational Mathematics
Numerical optimization of a numerically integrated function is a difficult task, and the computation of the objective function ... PROC NLMIXED can take a long time to run for problems with complex ...

Computational Problems
We discuss the problem of computing the standard errors of functions involving estimated parameters and provide the relevant computer code for three different computational approaches ... before ...

Computation of Standard Errors
However, neither of them is easy enough for developing the blind multiuser receivers for high-speed CDMA systems [1]. In order to solve the near-far problem with minimum prior knowledge and ...

Snap Blind Interference Cancellation
Because of the complexity of the simulation ... To obtain the optimal solution with minimum computation and time, the problem is solved iteratively where in each iteration the solution moves closer to ...

Simulation and Optimization
Advances in density functional theory mean it is now possible to describe catalytic reactions at surfaces with the detail and accuracy required for computational results to compare favourably with ...

Towards the computational design of solid catalysts
The computational efficiency of Gaussian beam migration depends on the solution of two problems: (1) computation of complex-valued beam times and amplitudes in Cartesian (x,z) coordinates, and (2) ...

OSTI.GOV Technical Report: Computational aspects of Gaussian beam migration
times optimum. These results significantly extend the earlier results by (i) Papadimitriou [Pa851] on complexity of stochastic satisfiability, (ii) Condon, Feigenbaum, Lund and Shor [CF+93, CF+94] by ...

Complexity and approximability of quantified and stochastic constraint satisfaction problems
The challenge addressed will be the computation of plastic strength and associated microstructure of a material at the meso and macroscale directly from the underlying motion of crystal defects. This ...

Mechanics, Materials, and Computing (MMC)
Bio-inspired computation is a computational intelligence technique based on principles or models of biological systems to solve complex real-world problems. The typical bio-inspired technologies ...

Bio-Inspired Computation and Its Applications
We proposed a novel framework called Genetic and Ant Colony Optimization (GenACO) to improve the performance of the cached data optimization implemented in previous research by providing a more ...

GenACO a multi-objective cached data offloading optimization based on genetic algorithm and ant colony optimization
Early and precise hearing diagnosis using electroencephalogram (EEG) is referred to as the optimum strategy to deal with this ... select the concise decision windows is to reduce the computational ...

Diagnosis of hearing deficiency using EEG based AEP signals: CWT and improved-VGG16 pipeline
Computational biology uses artificial intelligence and machine ... The ability to send messages across the body is critical for optimum functioning. Internal signals can indicate changes in cellular ...

What you will study
Lean NFV is a new reference architecture that aims to eradicate the complexity that characterizes ... changes as the underlying pillars that will bring about optimum results: the NFV Manager, the ...