عنوان مقاله:

Joint Multiuser And Inter-symbol Interference Suppression In CDMA Systems Using Particle Swarm Optimization Algorithms

محل انتشار:

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خلاصه مقاله:

Using Particle swarm optimization (PSO) has become a common heuristic technique in many fields of engineering. In this paper, we apply PSO to solve JointMultiuser and Inter-symbol Interference (ISI) Suppression problems in the code-division multiple-access (CDMA) systems over multipath Rayleigh fading channel, to reducethe computational complexity. In the proposed method, conventional detector (CD) is used as the first stage toinitialize the PSO algorithm and time-varying acceleration coefficients (TVAC) are used in PSO algorithm. The simulation results show that the performance of PSO-based MUD with TVAC is promising and outperform the CD.

کلمات کلیدی:

Code division multiple access, particle swarm optimization algorithm, multiple access interference, Intersymbol Interference, multiuser detection

لینک ثابت مقاله در پایگاه سیویلیکا:

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