

عنوان مقاله:

Comparison of Performance between Diffusion and Incremental Algorithms in Distributed Adaptive Networks: Sparse **SpectrumSensing**

محل انتشار:

سومين كنفرانس بين المللي مهندسي برق (سال: 1397)

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خلاصه مقاله:

In this paper, we try to compare the two useful algorithms in sensor networks. We suggest the usage of adaptiveincremental and diffusion strategies in the topic of sparse spectrum sensing for small cell communication networks. Several sparsity aware algorithms are presented and applied to the incremental network in order to improve the results. Our comparisons showed that for the task of spectrum sensing, the SPF-NMCC algorithm that is extended with theincremental strategy works much better than other presented algorithms in this topic. Our simulation results contain boththe diffusion and incremental network performances and as it was expected, the incremental strategy outperforms the diffusion strategy in sparse spectrum sensing. In this paper, we have tried to verify the equations and results of simulations of algorithms and prove the performances of the Incremental distributed network in comparison with its diffusion type, and we will say that these methods are used to sparse spectrum sensing for various sparsity .aware algorithms

کلمات کلیدی:

Sparse Spectrum, Spectrum Estimation, Incremental Algorithm, Diffusion Algorithm, Adaptive Networks

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