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Parameters estimation using cuckoo search algorithm of harmonic signals in additive and multiplicative noise

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Abstract : In this study we present a novel approach to estimate harmonics in multiplicative and additive noise using Cuckoo search algorithm. The estimation of parameters is formulated as a nonlinear optimization problem and simulations are carried out to assess the performance of the proposed algorithm.

Keywords : Cuckoo search algorithm, multiplicative noise, Additive noise, Parameters estimation, Harmonics, Metaheuristic