

Designing State Feedback Multi-Target Controllers by the Use of Particle Swarm Optimization Algorithm

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Abstract : One of the most important subjects of interest in researches is 'improving' which result in various algorithms. In so many geometrical problems we are faced with target functions which should be optimized. In group practices, all the functions' cooperation lead to convergence. In the study, the optimization algorithm of dense particles is used. Usage of the algorithm improves the given performance norms. The results reveal that usage of swarm algorithm for reinforced particles in designing state feedback improves the given performance norm and in optimized designing of multi-target state feedback controlling, the network will maintain its bearing structure. The results also show that PSO is usable for optimization of state feedback controllers.

Keywords : multi-objective, enhanced, feedback, optimization, algorithm, particle, design

Conference Title : ICECSE 2017 : International Conference on Electrical, Computer and Systems Engineering

Conference Location : Toronto, Canada

Conference Dates : June 15-16, 2017