Abstract

A novel method of generating lower order system is being introduced which grasps the advantages of Particle Swarm Optimization (PSO) technique and Modified Truncation (MT) Method. The proposed combination of PSO and MT is applied to original fourth and sixth order Linear Time Invariant (LTI) systems. The denominator polynomial is reduced using MT and numerator term using PSO. The step responses of the resultant lower order system and the original system are compared and their performances are justified.
Generating Lower Order System using Modified Truncation and PSO

- http://www.mat.univie.ac.at/~neum/glopt.html
Generating Lower Order System using Modified Truncation and PSO


Index Terms
Computer Science
Computing, Communication

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Keywords
Lower Order System  Particle Swarm Optimization  Modified Truncation  Linear Time Invariant System