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

References

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


Index Terms

Computer Science

Index Terms
Computing, Communication

And Sensor Network

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