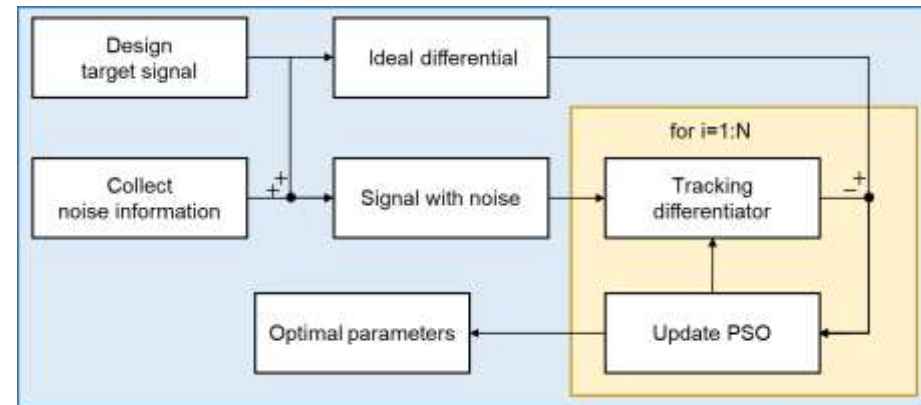


Design of Optimal Tracking Differentiator Based on Particle Swarm Optimization

Yang Gao and Dapeng Tian

Key Laboratory of Airborne Optical Imaging and Measurement, Changchun
Institute of Optics, Fine Mechanics and Physics, CAS, China
University of Chinese Academy of Sciences, China

- An optimal parameter design method for tracking differentiators.
- It is proved that the function of filter and error is convex.
- An off-line parameter design method based on PSO.



The workflow of the optimal tracking differentiator design based on PSO.