A Bacterial Foraging Optimized Finite Difference Time Domain Method

Abstract

Bacterial foraging optimization algorithm (BFOA) has attracted a lot of attention as a high performance optimizer because of its faster convergence and global search approach. Since its inception, BFOA has been applied successfully to wide variety various applications leading to faster convergence with higher accuracy. This paper presents one such application of the algorithm i.e. optimization of finite difference time domain method (FDTD). The hybrid algorithm has been applied for simulation of rectangular cavity resonator. The results show excellent performance.
References


- Tavel, P. 2007 Modeling and Simulation Design. AK Peters Ltd.


**Index Terms**

Computer Science  Emerging Trends in Technology

**Keywords**

Optimization Tools  Germ Intelligence  Fdtd  Cad