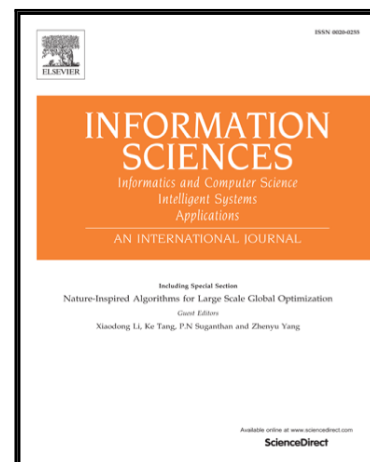


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Chinta Sivadurgaprasad , Remya Kommadath , Prakash Kotecha

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A note on multi-objective improved teaching–learning based optimization algorithm (MO-ITLBO)

The first author is Chinta Sivadurgaprasad

The second author is Remya Kommadath

The corresponding author is Dr. Prakash Kotecha

All the authors have the following affiliation

Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati - 781 039,
Assam, India

The email id of the corresponding author is pkotecha@iitg.ernet.in

The phone number of the corresponding author is +91 361 258 2277

Abstract

Recently Multi-Objective Improved Teaching-Learning-Based-Optimization algorithm (MO-ITLBO) has been proposed to solve complex multi-objective optimization problems and has been shown to be competitive against various other state-of-the-art algorithms. The algorithm was demonstrated on the constrained and unconstrained optimization problems of CEC 2009 and was reported to have shown impressive results. However, some critical steps in the algorithm have not been adequately described, and these have become major impediments even for the implementation of MO-ITLBO. In this note, we have explained all such issues which need to be convincingly addressed so that independent researchers could evaluate and use MO-ITLBO for various other applications. Also, two variants of MO-ITLBO have been suggested whose results enforce that the issues reported in this article are critical to harness the reported benefits of the MO-ITLBO.

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