Abstract

This paper presents an improved version of a harmony meta-heuristic algorithm with different chaotic maps, (IHSCH), for solving the linear assignment problem. The proposed algorithm uses chaotic behavior to generate a candidate solution in a behavior similar to acoustic monophony. Numerical results show that the IHSCH is accurate and efficient in comparison with harmony search (HS) algorithm, improved harmony search (IHS) algorithm and traditional methods (Hungarian method).

References

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Chaotic Harmony Search Algorithm with Different Chaotic Maps for Solving Assignment Problems

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Index Terms

Computer Science

Applied Mathematics

Keywords

Harmony search algorithm  meta-heuristics  optimization  assignment problem
chaos and evolutionary algorithms