Evaluation of a Harmony Search Algorithm for Manual Lifting Tasks Optimization

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Abstract

This paper presents near optimal solution method to find safe work place design using harmony search algorithm. Revised NIOSH equations are considered to minimize relative estimate of the physical stress associated with a manual-lifting job. The proposed algorithm will assist occupational safety and health practitioners in evaluating lifting tasks and reducing the incidence of low back injuries in workers.

References

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Index Terms

Computer Science Algorithms
Keywords

Lifting, Harmony Search Algorithm, Workplace, Design.