Abstract

This paper presents near optimal solution method to find safe workplace 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

2. X. Xu, C.-C. Chang, G. S. Faber, I. Kingma, and J. T. Dennerlein, “Estimation of 3-D peak
Evaluation of a Harmony Search Algorithm for Manual Lifting Tasks Optimization


Index Terms

Computer Science

Algorithms
Keywords

Lifting, Harmony Search Algorithm, Workplace, Design.