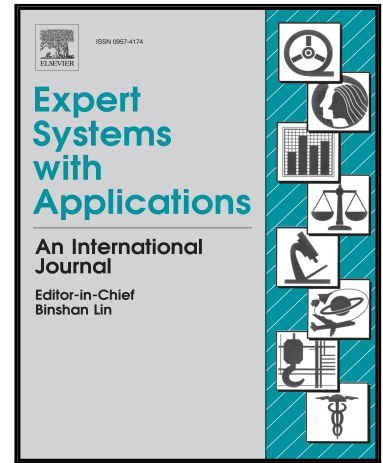


## Accepted Manuscript

Parameter-less Population Pyramid for Large-scale Tower Optimization

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## Highlights

- Parameter-less population pyramid algorithm is introduced for the constrained and structural optimization.
- The algorithm is examined by solving two large-scale tower design optimization problems.
- In order to apply the algorithm to these discrete problems, gray-codes were employed.
- The performance of the algorithm is further compared with four well-known algorithms.
- The results show improvements in both final solutions and convergence rate.

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