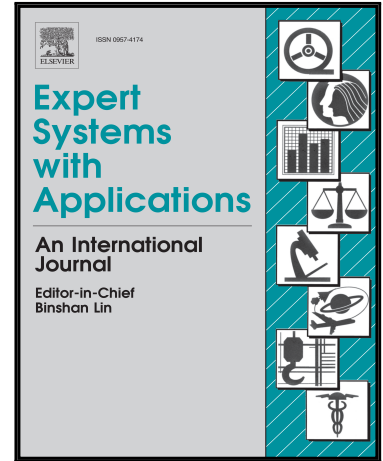


Accepted Manuscript

Parameter-less Population Pyramid for Large-scale Tower Optimization

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PII: S0957-4174(17)30803-5
DOI: [10.1016/j.eswa.2017.11.047](https://doi.org/10.1016/j.eswa.2017.11.047)
Reference: ESWA 11690



To appear in: *Expert Systems With Applications*

Received date: 27 May 2017
Revised date: 22 November 2017
Accepted date: 23 November 2017

Please cite this article as: Amir H. Gandomi , Brian W. Goldman , Parameter-less Population Pyramid for Large-scale Tower Optimization , *Expert Systems With Applications* (2017), doi: [10.1016/j.eswa.2017.11.047](https://doi.org/10.1016/j.eswa.2017.11.047)

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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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