

# Accepted Manuscript

An Extended Multiple Criteria Data Envelopment Analysis Model

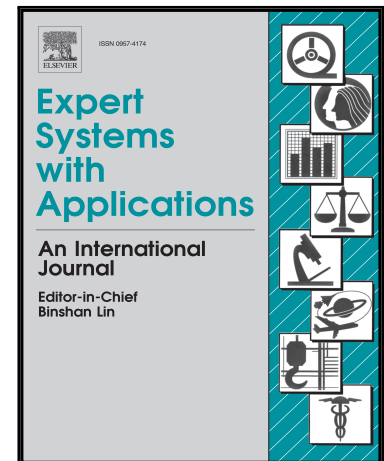
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PII: S0957-4174(16)30712-6  
DOI: [10.1016/j.eswa.2016.12.030](https://doi.org/10.1016/j.eswa.2016.12.030)  
Reference: ESWA 11039

To appear in: *Expert Systems With Applications*

Received date: 13 October 2016  
Revised date: 3 December 2016  
Accepted date: 22 December 2016

Please cite this article as: Adel Hatami-Marbini , Mehdi Toloo , An Extended Multiple Criteria Data Envelopment Analysis Model, *Expert Systems With Applications* (2016), doi: [10.1016/j.eswa.2016.12.030](https://doi.org/10.1016/j.eswa.2016.12.030)



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**Highlights**

- We extend weighted MCDEA model based on a lower bound for the weights.
- We improve discriminating power and weight dispersion simultaneously.
- The sensitivity analysis of weights and the simulation are implemented.
- A new DEA-based model is formulated to rank the efficient units.

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