

## Accepted Manuscript

Robust bi-level optimization for green opportunistic supply chain network design problem against uncertainty and environmental risk

Hêriş Golpîra, Esmacil Najafi, Mostafa Zandieh, Soheil Sadi-Nezhad

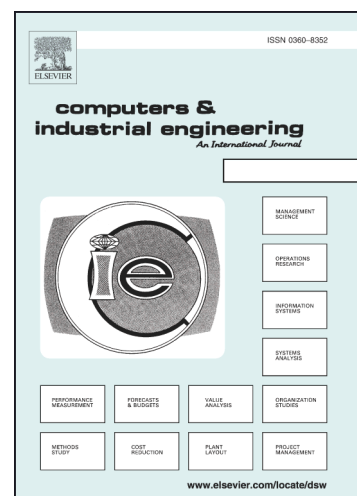
PII: S0360-8352(17)30125-0  
DOI: <http://dx.doi.org/10.1016/j.cie.2017.03.029>  
Reference: CAIE 4681

To appear in: *Computers & Industrial Engineering*

Received Date: 8 June 2016  
Revised Date: 22 February 2017  
Accepted Date: 24 March 2017

Please cite this article as: Golpîra, H., Najafi, E., Zandieh, M., Sadi-Nezhad, S., Robust bi-level optimization for green opportunistic supply chain network design problem against uncertainty and environmental risk, *Computers & Industrial Engineering* (2017), doi: <http://dx.doi.org/10.1016/j.cie.2017.03.029>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## **Robust bi-level optimization for opportunistic supply chain network design problem in uncertain and risky environment**

Hêriş Golpîra<sup>1</sup>, Esmâeil Najafi<sup>2</sup>, Mostafa Zandieh<sup>3</sup>, Soheil Sadi-Nezhad<sup>4</sup>

<sup>1</sup>Department of industrial engineering, Sanandaj branch, Islamic Azad University, Sanandaj, Iran

<sup>2</sup>Department of industrial engineering, Science and Research branch, Islamic Azad University, Tehran, Iran

<sup>3</sup>Department of Industrial Management, Management and Accounting, Shahid Beheshti University, Tehran, Iran

<sup>4</sup>Department of Statistics and Actuarial Science, University of Waterloo, Ontario, Canada.

Corresponding Author:

Hêriş Golpîra,

Address: Department of industrial engineering, Sanandaj branch, Islamic Azad University, Sanandaj, Iran.

e-mail: Herishgolpira@gmail.com

tel: +988733246248

fax: +988733246248

The total number of words of the manuscript: **8464**

The number of words of the abstract: **130**

The number of figures: **6**

The number of tables: 3

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات