

Accepted Manuscript

A 0-1 mixed programming model based method for group decision making with intuitionistic fuzzy preference relations

Fanyong Meng, Jie Tang, Zeshui Xu

PII: S0360-8352(17)30386-8

DOI: <http://dx.doi.org/10.1016/j.cie.2017.08.027>

Reference: CAIE 4874

To appear in: *Computers & Industrial Engineering*

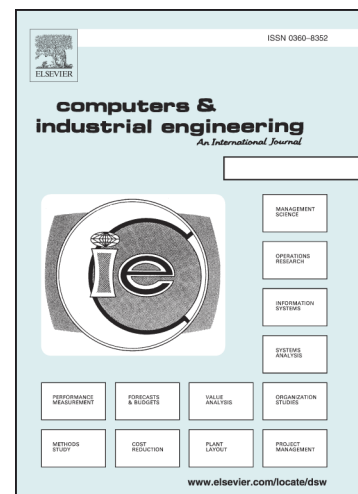
Received Date: 23 November 2016

Revised Date: 10 June 2017

Accepted Date: 22 August 2017

Please cite this article as: Meng, F., Tang, J., Xu, Z., A 0-1 mixed programming model based method for group decision making with intuitionistic fuzzy preference relations, *Computers & Industrial Engineering* (2017), doi: <http://dx.doi.org/10.1016/j.cie.2017.08.027>

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.



Title: A 0-1 mixed programming model based method for group decision making with intuitionistic fuzzy preference relations

First author: Fanyong Meng graduated from Linyi University, China, in 2005. He received the M.S. degree from Guangxi University in 2008 and the Ph.D. degree from Beijing Institute of Technology, China, in 2011. From 2014 to 2016, he was a Post-Doctoral Researcher with the School of Business, Central South University. Currently, he is a professor in Central South University. His research interests include fuzzy mathematics, decision making and game theory. At present, he has published more than 90 papers.

Institution: ¹School of International Audit, Nanjing Audit University, Nanjing 211815, China

³School of Business, Central South University, Changsha 410083, China

Address: Yuelu District, Changsha Hunan Province, 410083, China.

Ph: 8618254298903

E-mail: mengfanyongtjie@163.com

Second author: Jie Tang is carrying out her Ph.D. degree in School of Business, Central South University. She received her master degree in School of Management, Qingdao Technological University, China in 2008. Currently, she has contributed 6 journal articles to professional journals. Her research interests include uncertain multi-attribute decision making, cluster analysis, and pattern recognition.

Institution: ³School of Business, Central South University, Changsha 410083, China

Address: Yuelu District, Changsha Hunan Province, 410083, China.

E-mail: tjie411@126.com

Corresponding Co-author: Zeshui Xu (M'08–SM'09) received the Ph.D. degree in management science and engineering from Southeast University, Nanjing, China, in 2003. From 2003 to 2005, he was a Post-Doctoral Researcher with the School of Economics and Management, Southeast University. From 2005 to 2007, he was a Post-Doctoral Researcher with the School of Economics and Management, Tsinghua University, Beijing, China. He is a Professor with the Uncertainty Decision-making Laboratory, Sichuan University, Chengdu, Sichuan, China. His current research interests include group decision making, computing with words, aggregation operators, preference relations, and fuzzy sets.

Dr. Xu is currently the Associate Editor of *Fuzzy Optimization and Decision Making*, *Journal of Intelligence Systems*, and also a member of Editorial Boards of *Information*, an international journal, *International Journal of Applied Management Science*, *International Journal of Data Analysis Techniques and Strategies*, *Journal of Applied and Computational Mathematics*, *International Journal of Research in Industrial Engineering*, *System Engineering-Theory and Practice*, *Fuzzy Systems and Mathematics*, *Journal of Systems Engineering*, and the *Chinese Journal of Management Science*. He has authored the following books: *Uncertain Multiple Attribute Decision Making: Methods and Applications* (Tsinghua University Press, 2004), *Intuitionistic Fuzzy Information Aggregation: Theory and Applications* (Science Press and Springer, 2012), *Linguistic Decision Making: Theory and Methods* (Science Press and Springer, 2012), and *Intuitionistic Fuzzy Aggregation and Clustering* (Springer, 2013). He has contributed more than 400 journal articles to professional journals.

Institution: ²Business School, Sichuan University, Chengdu 610064, China

Address: Sichuan University, No.24 South Section 1, Yihuan Road, Chengdu, China, 610065

E-mail: xuzeshui@263.net (Z. S. Xu)

Abstract: Intuitionistic fuzzy preference relations (IFPRs) are important and powerful that can express the decision makers' preferred and non-preferred judgements simultaneously. To rank objects reasonably, consistency analysis is necessary. Thus, this paper defines a new multiplicative consistency concept for IFPRs that is a natural extension of the

متن کامل مقاله

دریافت فوری ←

ISIArticles

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