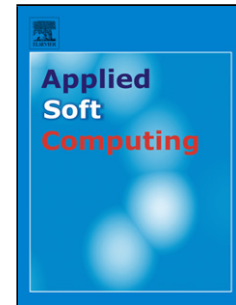


Accepted Manuscript

Title: A group decision making support system for the Web:
how to work in environments with a high number of
participants and alternatives

Author: J.A. Morente-Molinera G. Kou I.J. Pérez K.
Samuylov A. Selamat E. Herrera-Viedma



PII: S1568-4946(18)30178-9
DOI: <https://doi.org/doi:10.1016/j.asoc.2018.03.047>
Reference: ASOC 4796

To appear in: *Applied Soft Computing*

Received date: 2-11-2017
Revised date: 4-2-2018
Accepted date: 24-3-2018

Please cite this article as: J.A. Morente-Molinera, G. Kou, I.J. Pérez, K. Samuylov, A. Selamat, E. Herrera-Viedma, A group decision making support system for the Web: how to work in environments with a high number of participants and alternatives, *Applied Soft Computing Journal* (2018), <https://doi.org/10.1016/j.asoc.2018.03.047>

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.

A group decision making support system for the Web: how to work in environments with a high number of participants and alternatives

J. A. Morente-Molinera^a, G. Kou^b, I. J. Pérez^c, K. Samuylov^d, A. Selamat^e,
E. Herrera-Viedma^f

^a*Department of Engineering, School of Engineering and Technology, Universidad Internacional de la Rioja (UNIR), juan.morente@unir.net, Logroño, Spain.*

^b*School of Business Administration, Southwestern University of Finance and Economics, kougang@swufe.edu.cn, Chengdu, China.*

^c*Dept. of Computer Sciences and Engineering, University of Cadiz, ignaciojavier.perez@uca.es, Cádiz, Spain.*

^d*Peoples Friendship University of Russia (RUDN University), ksam@sci.pfu.edu.ru, Moscow, Russia.*

^e*Universiti 4 Teknologi Malaysia, aselamat@utm.my, Johor Bahru, Malaysia.*

^f*Department of Computer Science and Artificial Intelligence, University of Granada, viedma@decsai.ugr.es, Granada, Spain.*

Abstract

One of the main challenges that the appearance of Web 2.0 and the overall spreading of the Internet have generated is how to tackle with the high number of users and information available. This problem is also inherited by the group decision making problems that can be carried out over the Web. In this article, to solve this issue, a group decision making support system that allows the use of a high number of participants and alternatives is presented. This method allows any number of participants to join the decision making process at any time. Furthermore, they let them provide information only about a certain subset of alternatives. The high participation rate can provide enough information for the decision process to be carried out even if the participants do not provide information about all the high number of available alternatives.

Keywords: fuzzy linguistic modelling; group decision making; computing with words; multi-granular linguistic information.

Download English Version:

<https://daneshyari.com/en/article/6903622>

Download Persian Version:

<https://daneshyari.com/article/6903622>

[Daneshyari.com](https://daneshyari.com)