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2009 : April 2009 - Emerging Research Fronts : Serafim Opricovic & Gwo-Hshiung Tzeng

EMERGING RESEARCH FRONTS - 2009

April 2009



Serafim Opricovic & Gwo-Hshiung Tzeng talks with ScienceWatch.com and answers a few questions about this month's Emerging Research Front Paper in the field of Economics & Business.



Article: Compromise solution by MCDM methods: A comparative analysis of VIKOR and TOPSIS

Authors: Opricovic, S;Tzeng, GH

Journal: EUR J OPER RES, 156 (2): 445-455 JUL 16 2004

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SW: Why do you think your paper is highly cited?

Three keywords attract the reader's attention: Compromise (as one of the conflict resolution methodologies), VIKOR (a new method for multicriteria decision-making), and TOPSIS (technique for order preference by similarity to an ideal solution). The basic principle is that the chosen alternative should have the shortest distance from the ideal solution and the farthest distance from the negative-ideal solution.

SW: Would you summarize the significance of your paper in layman's terms?

The new VIKOR method for conflict resolution determines a compromise solution, providing a maximum "group utility" for the "majority" and a minimum of individual regret from the "opponent." Compromise is a democratic methodology.

SW: How did you become involved in this research and were any particular problems encountered along the way?

There are many conflict management situations. Among the numerous approaches available for conflict management, one of the most prevalent is multicriteria decision-making (MCDM). Particular problems arose from various water-related issues, such as drought, flood, contamination, and environmental management.

SW: Do you foresee any social or political implications for your research?



*Coauthor
Gwo-Hshiung Tzeng*

We would like to see compromise accepted as a sustainable solution in natural resources management.
VIKOR is an appropriate tool for compromise solution.

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KEYWORDS: MULTIPLE CRITERIA ANALYSIS; COMPROMISE; VIKOR; TOPSIS; COMPARISON.

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