Métodos de Decisão Multicritério Fuzzy (04 créditos)

Ementa:

Métodos de decisão multicritério: AHP (Analytic Hierarchu Process), TOPSIS (Technique for Order Preference by Similarity do Ideal Solution), VIKOR (ViseKriterijumska Optimizacija I Kompromisno Resenje). Métodos de decisão multicritério com utilização de conjuntos difusos: Fuzzy-TOPSIS e Fuzzy-VIKOR. Recentes desenvolvimentos nos métodos Fuzzy-TOPSIS e Fuzzy-VIKOR e tendências de pesquisa. Estudo de casos com aplicação dos métodos Fuzzy-TOPSIS e Fuzzy-VIKOR.

Referências:

KAHRAMAN, C. Fuzzy Multi-Criteria Decision-Making: Theory an applications with recent developments. New York: Springer Science e Business Media, 2008.

M. GUL, E. CELIK, N. AYDIN, A. TASKIN, A. FUAT. A state of the art literature review of VIKOR and its fuzzy extensions on applications, Applied Soft Computing Journal, v.46, p. 60-89, 2016.

PEDRYCZ, W.; EKEL, P.; PARREIRAS, R. Fuzzy multicriteria decision-making: models, methods and applications. Chichester: John Wiley &Sons Ltd, 2011.

ROSS, T. J. Fuzzy Logic with Engineering Applications, 3.ed. Chichester: John Wiley &Sons Ltd, 2010.

S. H. ZYOUD, D. FUCHS-HANUSCH. A bibliometric-based survey on AHP and TOPSIS techniques, Expert Systems With Application, v. 78, p. 158 181, 2017.

S. NADABAN, S. DZITAC, I. DZITAC. Fuzzy TOPSIS : A General View, Procedia Computer Science, v. 91, p. 823 831, 2016.

S. OPRICOVIC, G. H. TZENG. Compromise Solution by MCDM Methods : A Comparative Analysis of VIKOR and TOPSIS, European Journal of Operational Research, v. 156, p. 445 455, 2004.

S. OPRICOVIC, G. H. TZENG. Extended VIKOR Method in Comparison with Outranking Methods, European Journal of Operational Research, v. 178, p. 514 529, 2007.

SAATY, T. L. A scaling method for priorities in hierarchical structures. Journal of Mathematical Psychology, v.15, n. 3, p. 234-281, 1977.

SENGUPTA, A.; PAL, T. K. Fuzzy preference ordering of interval numbers in decision problems. Berlin: Springer-Verlag, 2009.