

EXPERIENCE-BASED DECISION SUPPORT METHODS USING ORDINAL EXPERT ESTIMATES

Sergey Kadenko
National Academy of Sciences of Ukraine
The Institute for Information Recording
Kyiv, Ukraine
E-mail: sergeykadenko@mail.ru

ABSTRACT

Experience-based decision-making support methods using ordinal expert estimates (i.e. alternative rankings) are suggested. The methods can be used when it is impossible or problematic to obtain cardinal estimates and/or criterion weights through direct expert estimation. Cases of one-level and multi-level criteria hierarchies as well as criteria networks are analyzed. The concept of a multi-functional cardinal and ordinal type decision-making support system is proposed.

Keywords: ordinal expert estimate, ranking, criterion weight, criteria hierarchy