
The efficiency evaluation of the enterprise information systems implementation

© S.A. Sakulin, A.A. Maksakov

Bauman Moscow State Technical University, Moscow, 105005, Russia

The problems of evaluating the efficiency of the enterprise information systems' implementation are discussed. An expanded approach to evaluating the efficiency of the implementation based on the aggregation of dependent indicators is proposed. For some indicators of the implementation efficiency are threshold values introduced which should be reached for successful implementation. The problems of the implementation effectiveness indicators' normalization are considered. A generalized indicator for the efficiency of the implementation of the information systems is proposed. This indicator is based on the Choquet integral. A practical example of the dependent effectiveness indicators is considered. Taking into account the indicators' dependence one can build a more accurate of evaluation model the effectiveness of implementation.

Keywords: *effectiveness of systems implementation, information systems aggregation operator, fuzzy measure, Choquet fuzzy integral.*

Sakulin S.A. (b. 1976) graduated from Bauman Moscow State Technical University in 2001. Ph.D., Assoc. Professor of the Information Systems and Telecommunications Department of Bauman Moscow State Technical University. Author of 18 scientific publications. Scientific interests lie in the fields of artificial intelligence methods, patterns recognition, expert knowledge formalization and visualization. e-mail: sakulin@bmstu.ru

Maksakov A.A. (b. 1977) graduated from Bauman Moscow State Technical University in 2001. Ph.D., Assoc. Professor of the Information processing and control systems Department of Bauman Moscow State Technical University. Author of 10 scientific publications. Scientific interests lie in the fields of models and algorithms for the evaluation of the quality of information systems, the theoretical foundations for the construction of databases, the methods for optimizing information processes. e-mail: 256m@mail.ru
