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Agric. Econ. – Czech

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Approach to comparing complex software implementation methods

Some of agriculture-food sector information systems are characterised by a high complexity and a large size. There are often many alternative solutions or technologies (implementation methods) and more then one possible way or approach to an information system design. Individual alternatives could considerably differ by their properties, e.g. costs of design of initial functionality, development and operational costs, run-time costs and technical parameters of the resulting information system (e.g. the

access time). Unfortunately, existing metrics for quantification of this task usually do not deliver precise results but a rough estimate depending on many variable conditions. The paper will outline typical implementation methods and show approaches to assessment and comparison of certain types of properties of information systems for a computer support for management of large data systems, which use relational database. Authors presented part of these results also at the Agrarian Perspectives conference 2004 in the Applied Informatics session (Vrana I., Vrána J. 2004).

Keywords:

Information system, implementation method, quality assessment

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