Decision Support Systems Usefulness and A Practical Solution Based on Semantic Web Technologies

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September 2011

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Editor(s): Soliman, KS

Source: CREATING GLOBAL COMPETITIVE ECONOMIES: A 360-DEGREE APPROACH, VOLS 1-4 **Pages:** 1131-1138 **Published:** 2011

Times Cited: 0 (from Web of Science)

Cited References: 41 [view related records] Citation Map

Conference: 17th International-Business-Information-Management-Association Conference **Location:** Milan, ITALY **Date:** NOV 14-15, 2011
Sponsor(s): Int Business Informat Management Assoc

Abstract: Nowadays Decision Support Systems deal with impressive amount of information. Current Decision Support Systems are customized solutions, possible to be used only in the context for which they were developed. In addition to this the information integration is other common problem of the Decision Support Systems.

This paper tries to outline the main idea that in order that Decision Support Systems users' to be satisfied with the solution provided two conditions must be assured: the possibility to apply knowledge at the decision moment and place by the decision makers and the semantic integration of information.

In this work we analyze the direct influence of the two conditions enunciated above and we came with a solution that is based on ontology, Semantic Web technologies and inference engine. We demonstrate the contribution of our approach by undertaking three scenarios from business decision making processes.

Accession Number: WOS:000317550000111

Document Type: Proceedings Paper

Language: English

Author Keywords: decision support systems; information integration; semantic web; ontology; knowledge

KeyWords Plus: INFORMATION OVERLOAD; EXPERT-SYSTEM; KNOWLEDGE; PERFORMANCE; MANAGEMENT; INTEGRATION; OPERATIONS; ONTOLOGY; DESIGN; MODEL

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Publisher: INT BUSINESS INFORMATION MANAGEMENT ASSOC-IBIMA, 34 E GERMANTOWN PIKE, NO. 327, NORRISTOWN, PA 19401 USA

Web of Science Categories: Business; Economics; Management

Research Areas: Business & Economics

IDS Number: BEO28

ISBN: 978-0-9821489-6-9