

A DSS Theory From Problem Solving Paradigm

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Abstract

This paper proposes a new problem-solving paradigm of a DSS which provides the theoretical foundation for a design procedure to construct a specific DSS and DSS generator. First, a formal concept of a problem-solving system is introduced. Then, the functions which a DSS and the user should perform in such a process for maximal utilization of their capabilities are identified. Finally, the implementation of these functions is addressed.

Keywords: Decision Support System (DSS), Goal-Seeking Problem, Problem-Solving Systems, General System Theory (*GST*), Multi-Layer Model.