

## GUEST EDITORIAL

It is my pleasure to announce that this Special Issue contains papers I have chosen from the papers of the 9<sup>th</sup> International Conference on Information and Intelligent Systems (held in Varaždin, Croatia, September 22 - 24, 1998). This special issue consists of eight papers from three areas which are: Knowledge Bases (3 papers), Information Systems (4 papers), and Computer Network Security (1 paper).

The paper by G. Bubaš, Ž. Čović, Z. Fulir, and B. Kliček discusses knowledge discovery in databases (KDD). KDD is evaluated for its potential application in the analysis of survey data on substance abuse. It is concluded that KDD techniques offer many opportunities to discover new patterns in survey data, the model development of substance abuse, and any prevention activity.

M. Maleković considers incorporating knowledge and time in multi-agent systems. Five temporal operators (next, always, eventually, until, and waiting-for) and knowledge operators  $K_i$  ( $i = 1, \dots, n$ ) are described. Some new results regarding the properties of temporal and knowledge operators are proved.

S. Medenjak, B. Kliček and D. Pavlinušić describe the usage of multimedia in the field of knowledge elicitation. It introduces the multimedia poll as a technique suitable for knowledge elicitation that would otherwise use the classic poll technique. The pros and cons of using multimedia are also presented.

The paper by J. Brumec, V. Dušak and N. Vrček discusses the integration of object-oriented and structured methods in a complex IS project. It recommends a HIPO-diagram as a modeling technique for that phase of information system development in which this integration takes place.

A. Lovrenčić considers the problem of decomposition within an information system. The problem is solved with some additional limitations that are usual in the praxis of decomposition. An algorithm that calculates the optimal decomposition of subprocesses into processes is presented.

S. Vojvoda discusses the term information system in English and its Croatian equivalents. Apart from being used in its own right, the term information system in English readily combines with other linguistic items to form new compound terms and free syntactic phrases. Based on examples taken from contemporary computing and information science publications, the paper surveys the main features of these combinations and analyzes them from the point of view of their translation into Croatian.

M. Žugaj, R. Zelenika and S. Vukmirović, consider the methods of information system development from the point of view of their influence on the adaptability and the flexibility of a forwarding enterprise's organizational structure. The methods of business reengineering and total quality management are systematized, compared, and analyzed.

The paper by A. Hudoklin and A. Stadler analyzes the problem of the security of a workstation connected to the computer network within an organization. A methodology for the ensured security of a workstation is presented. The methodology is applied to the computer network of a Slovenian state agency working in the field of social security.

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