

GUEST EDITORIAL

All the papers collected in this issue of ZBORNIK RADOVA were presented at the 10th International Conference on Information and Intelligent Systems, IIS'99, which was held in Varaždin from 22nd - 24th September, 1999. After a thorough review eight papers have been selected from among those presented in the plenaries. The basic criterion of selection was the potential contribution of the paper to research areas covered by the Faculty of Organization and Informatics, Varaždin.

Z. Krakar discusses the concepts and organisation of SPICE methodology in his paper SOFTWARE PROCESS IMPROVEMENT BY SPICE METHODOLOGY. A generic model for process management and its components are presented and processes evaluated against capability levels.

In their paper KNOWLEDGE DISCOVERY IN DATABASES: A COMPARISON OF DIFFERENT VIEWS, E. Andrássová and J. Paralič present the notions and give definitions of knowledge discovery in databases (KDD) while pointing out their similarities and differences.

ON THE NOTION OF BEING MORE KNOWLEDGEABLE IN MULTI-AGENT SYSTEMS, a paper by Mirko Čubrilo and Mirko Maleković, reveals that a relatively simple relationship between the possibility relations for two agents, which generalizes the inclusion relationship, manifests some intuitive features.

MULTI-AGENT SYSTEMS: MODELING KNOWLEDGE BASES, another paper by the same authors, considers modeling knowledge bases in a multi-agent system framework.

The usage of machine-learning techniques in assigning keywords to documents has been described in the next paper, ASSIGNING KEYWORDS TO DOCUMENTS USING MACHINE LEARNING, by D. Mladenić and M. Grobelnik.

A way to solve the problems of inconsistency and partiality of data as well as conflicts between data sources by using a logic-based language HiLog as a mediator language has been demonstrated by A. Lovrenčić in his paper KNOWLEDGE BASE AMALGAMATION USING THE HIGHER-ORDER LOGIC-BASED LANGUAGE HiLog.

In his invited paper TOWARDS THE GENERALIZATION OF T-OPERATORS: A DISTANCE BASED APPROACH, I. J. Rudas gives a brief summary of the best-known operators, such as t-norms, t-conorms, uninorms, averaging and compensative operators and outlines their most important properties. Two new pairs of distances and their generalizations have been introduced as well.

In another invited paper, INTERIOR-POINT METHODS AND MODERN OPTIMIZATION CODES, by Goran Lešaja, an overview of interior-point methods, some implementation issues and modern optimization codes based on those methods have been given.

I believe that this collection will prove to be an authoritative source of information about present preoccupations of researchers in information science. I would like to thank all the authors and reviewers, who have helped to bring about this special issue.

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Guest Editor

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