P R E F A C E

This number of the journal Zbornik radova of the Faculty of Organization and Informatics, University of Zagreb, represents a selection of the best original scientific papers presented at the 6th International Symposium on Information Systems '95. As a president of the Organisational Board of the Symposium I was given a privilege to be a guest editor of the No 20 of the journal Zbornik radova.

I proposed 8 original scientific papers out of 33 to be published in this number and they all conform to the required publishing standards of the journal.

Fifty-six authors organized in seven sections took part at the Symposium with seventeen scientific and sixteen professional papers.

Symposium on Information Systems '95 was organized together with:

- Karl-Franzens-Universität Graz, Informationswissenschaft,
- Bánki Donát Politechnic, Department of Information Technology Budapest,
- Univerza v Mariboru, Fakulteta za elektrotehniko, računalništvo in informatiko,
- Univerza v Mariboru, Ekonomsko-poslovna fakulteta, p.o. Maribor.

Section Information Systems-Theory, State, Development had an undivided attention of all present at the Symposium (due to the quality of the presented papers) and was one of the best attended. From the work of this section I've chosen the following:

Marijan Krašna, Ivan Rozman: *UNDERSTANDING PROCESSES DURING EXECUTION OF SOFTWARE ENGINEERING PROJECT PLAN*

Christian Schlögl: *SEMANTIC DATA MODELLING-AN ESTABLISHED SOFTWARE ENGINEERING METHOD?*

Zdravko Krakar, Stanislav Vučica: *RESULTS OF THE RESEARCH ON CROATIAN SOFTWARE PRODUCERS' MATURITY AND EXPERIENCES IN IMPROVING THE CURRENT STATE*

Mile Pavlić: *PROBLEMS IN THE APPLICATION OF GENERALIZED ABSTRACTIONS*

Andras Benczur, Agnes B. Novak, Peter Z. Revesz: *ON THE SEMANTICS OF REVISION AND MODEL-FITTING IN WEIGHTED CASE*

The authors M. Krašna and I. Rozman discuss the problems related to understanding and making information-project plan, pointing out its exceptional sensitivity to human factor.

Z. Krakar and S. Vučica show comparative maturity measurement values of the Croatian and foreign software producers, finding out the reasons for the current state and the measures to be taken in order to improve it.

K. Schlögl gives in his paper a critical review on semantic data modeling and discusses the reasons why this modeling isn't widely used.

M. Pavlić discusses the problems of the application of generalization apstraction as a natural description of a system. The paper describes and gives one solution by replacing any generalization apstraction with a model made up of a number of classification and aggregation abstractions.

A group of authors A. Benczur, A.B. Novak, P. Z. Revesz speak about updating and adding new information to some old information represented by a logical theory. In their paper they generalize the results of Katzune and Mendelzon to a revision with the help of weighted knowledge bases, where weights indicate the relative importance of the information.

From the Section The Role of Information Systems I've chosen the following:

Neli Plazibat, Zoran Babić: *HOW TO CHOOSE THE BEST INVESTMENT PROJECT-MULTICRITERIAL APPROACH*

Josip Brumec: *SIMULATION MODEL OF THE EFFECTS OF COMPUTERIZATION ON THE MANUFACTURING FIRM.*

N. Plazibat, Z.Babić deal with the problems of choosing investment projects with the help of multicriterial approach. They pay special attention to the choice and estimation of the specific criteria for choosing projects and their implementation into mathematical model.

J. Brumec uses simulation model to show the effects of investing into computerization of the manufacturing firm and shows clearly how particular parameters of computerization and the change of their values influence the management of manufacturing firms.

From the Section Information Systems Planning and Design I chose the paper by a group of authors:

László Horváth, Imre J. Rudas, Joseph S. Török, Agnes Szeghegyi: *APPLICATION OF NOVEL KNOWLEDGE BASED PARADIGMS IN COMPUTER AIDED MANUFACTURING PROCESS MODELING.*

The authors deal with the application of technique integration based upon the knowledge for nonlinear process modeling and they suggest a new approach to the computer aided manufacturing process planning with the help of the knowledge-based systems.

No doubt there are still other interesting topics presented at the Symposium but I selected the papers which I considered to be the best and most recent. I hope the readers will agree with my opinion and will find their interests and pleasure in reading this number of the journal.