PREFACE

The scope of the International Book Series "Information Science and Computing" (**IBS ISC**) covers the area of Informatics and Computer Science. It is aimed to support growing collaboration between scientists from all over the world. IBS ISC is official publisher of the works of the members of the ITHEA International Scientific Society.

The official languages of the IBS ISC are English and Russian.

IBS ISC welcomes scientific papers and books connected with any information theory or its application.

IBS ISC rules for preparing the manuscripts are compulsory. The rules for the papers and books for IBS ISC are given on www.foibg.com/ibsisc. The camera-ready copy of the papers and books should be received by e-mail: info@foibg.com. Responsibility for papers and books published in IBS ISC belongs to authors.

The Number 7 of the IBS ISC contains collection of papers in the field of Artificial Intelligence and Decision Making. Papers are peer reviewed and are selected from the XIVth International Conference "Knowledge-Dialog-Solution", which was a part of the Joint International Events of Informatics "ITA 2008", Varna, Bulgaria and Uzhgorod, Ukraine.

ITA 2008 has been organized by

   Institute of Information Theories and Applications FOI ITHEA
in collaboration with:

- ITHEA International Scientific Society
- International Journal "Information Theories and Applications"
- International Journal "Information Technologies and Knowledge"
- Association of Developers and Users of Intelligent Systems (Ukraine)
- Association for Development of the Information Society (Bulgaria)
- V.M.Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine
- Institute of Mathematics and Informatics, BAS (Bulgaria)
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- Uzhgorod National University (Ukraine)
- Sofia University "Saint Kliment Ohridski" (Bulgaria)
- Technical University – Sofia (Bulgaria)
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More information about ITA 2008 is given at the www.foibg.com.

The XIVth International Conference "Knowledge-Dialogue-Solution" (KDS-2008) took place in June, 21-26, 2008 in Varna, Bulgaria (First part) and in September 28 - October 04, 2008 in Uzhgorod, Ukraine (Second part). This volume includes the papers presented at the second part of the KDS-2008.

KDS-2008 continues the series of international scientific meetings, which were initiated more than sixteen years ago. It is organized owing to initiative of ADUIS - Association of Developers and Users of Intelligent Systems (Ukraine), Institute of Information Theories and Applications FOI ITHEA, (Bulgaria), and IJ ITA - International Journal on Information Theories and Applications, which have long-term experience of collaboration. Now we can affirm that the international conferences "Knowledge-Dialogue-Solution" in a great degree contributed to preservation and development of the scientific potential in the East Europe.

KDS-2008 is dedicated to 15th Anniversary of the International Journal on Information Theories and Applications.

The KDS conferences are traditionally devoted to discussion of current research and applications regarding three basic directions of intelligent systems development: knowledge processing, natural language interface, and decision making. The basic approach, which characterizes presented investigations, consists in the preferential use of logical and linguistic models. This is one of the main approaches uniting investigations in Artificial Intelligence. The main topics of KDS conferences include but are not limited to: Neural Nets, Mathematics of Computing, Decision Tools and Techniques, Decision Support, Formal Models, Expert Systems, Ontologies, Knowledge Acquisition, Natural Language Processing, Pattern Recognition, Distributed Information Processing, Philosophy and Methodology of Informatics.

The official languages of the Conference are Russian and English.

KDS 2008 Program Committee

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The papers in this volume are organized in four sections: Intelligent Technologies; Decision Making; Algorithmic and Mathematical Foundations of the Artificial Intelligence; Philosophy and Methodology of Informatics.

The great success of ITHEA International Journals, International Book Series and International Conferences belongs to the whole of the ITHEA International Scientific Society. We appreciate the contribution of the members of the KDS-2008 Program Committee. We express our thanks to all authors, editors, collaborators and sponsors.

Sofia-Uzhgorod, September 2008   *A.Voloshin, Kr. Markov, Kr. Ivanova, M.Malyar, I. Mitov*