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Knowledge-Dialogue-Solution

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The XI-th International Conference "Knowledge-Dialogue-Solution" (KDS 2005) continues the series of annual international KDS events organized by Association of Developers and Users of Intelligent Systems (ADUIS).

The conference is 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.

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PREFACE

The scientific Eleventh International Conference "Knowledge-Dialogue-Solution" took place in June, 20-30, 2005 in Varna, Bulgaria. These two volumes include the papers presented at this conference. Reports contained in the Proceedings correspond to the scientific trends, which are reflected in the Conference name.

The Conference continues the series of international scientific meetings, which were initiated more than fifteen 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.

The conference is 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.

KDS 2005 topics of interest include, but are not limited to:

Cognitive Modelling	Knowledge Engineering
Data Mining and Knowledge Discovery	Logical Inference
Decision Making	Machine Learning
Informatization of Scientific Research	Multi-agent Structures and Systems
Intelligent NL Text Processing	Neural and Growing Networks
Intelligent Robots	Philosophy and Methodology of Informatics
Intelligent Technologies in Control and Design	Planning and Scheduling
Knowledge-based Society	Problems of Computer Intellectualization

The organization of the papers in KDS-2005 is based on specialized sessions. They are

1. Cognitive Modelling
2. Data Mining and Knowledge Discovery
3. Decision Making
4. Intelligent Technologies in Control, Design and Scientific Research
5. Mathematical Foundations of AI
6. Neural and Growing Networks
7. Philosophy and Methodology of Informatics

The official languages of the Conference are English and Russian. Sections are in alphabetical order. The sequence of the papers in the sections has been proposed by the corresponded chairs and is thematically based. The Program Committee recommends the accepted papers for free publishing in English in the International Journal on Information Theories and Applications (IJ ITA).

The Conference is sponsored by FOI Bulgaria (www.foibg.com).

We appreciate the contribution of the members of the KDS 2005 Program Committee.

On behalf of all the conference participants we would like to express our sincere thanks to everybody who helped to make conference success and especially to Kr.Ivanova, I.Mitov, N.Fesenko and V.Velichko.

V.P. Gladun, A.F. Voloshin, Kr.K. Markov

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