PREFACE

The International Journal on Information Theories and Applications (IJ ITA) has been established in 1993 as independent scientific printed and electronic media.

IJ ITA major topics of interest include, but are not limited to:

INFORMATION THEORIES

Artificial Intelligence Education Informatics

Computer Intellectualization General Information Theory

Intelligent Networks and Agents Hyper Technologies
Intelligent Technologies Information Models

Knowledge Discovery and Engineering Intellectualization of Data Processing

Knowledge Acquisition and Formation Knowledge-based Society

Distributed Artificial Intelligence Logical Inference

Models of Plausible Reasoning Natural language Processing

Al Planning and Scheduling Neuroinformatics

Bioinformatics Philosophy and Methodology of Informatics

Business Informatics Quality of the Programs
Cognitive Science Software Engineering
Decision Making Theory of Computation

APPLICATIONS

Business Information Systems Multimedia Systems

Communication Systems Programming Technologies

Computer Art and Computer Music Program Systems with Artificial Intelligence

Hyper Technologies Pyramidal Information Systems
Intelligent Information Systems Very Large Information Spaces

During the years, IJ ITA became as well-known international journal. Till now, including this volume, 715 papers have been published. IJ ITA authors are widespread in 47 countries all over the world: Armenia, Azerbaijan, Belarus, Brazil, Belgium, Bulgaria, Canada, China, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Jordan, Kyrgyz Republic, Latvia, Lithuania, Malaysia, Malta, Mexico, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Scotland, Senegal, Serbia and Montenegro, Sweden, Spain, Sultanate of Oman, Turkey, UK, Ukraine, and USA.

Volume 16/2009 of the IJ ITA contains 29 invited papers.

The great success of IJ ITA belongs to the whole of the ITHEA® International Scientific Society. We express our thanks to all authors, editors and collaborators who had developed and supported the International Journal on Information Theories and Applications.

More information about the IJ ITA rules for preparing and submitting the papers as well as how to take out a subscription to the Journal may be obtained from www.ithea.org.

XVth anniversary of the International Prize "ITHEA"!



The **International Prize "ITHEA"** for outstanding achievements in the area of information theories and applications has been established in 1995.

For fifteen years, 41 leading scientists of the ITHEA International Scientific Society have been awarded by the "ITHEA" Prize.

Congratulations to Prof. Anatoliy Danilovich Krissilov who has been awarded by the "ITHEA" Prize for 2009 year.

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		S. Lazarov, S. Pironkov, V. Tomov
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1997	Yalta	Z. Rabinovich, V. Sgurev, A. Timofeev, A. Voloshin
1998	Sofia	V. Jotsov
1999	Sofia	L. Zainutdinova
2000	Varna	I. Arefiev, A. Palagin
2001	St.Peterburg	N. Ivanova, V. Koval
2002	Primorsko	A. Milani, M. Mintchev
2003	Varna	T. Gavrilova, A. Eskenazi, V. Lozovskiy, P. Stanchev
2004	Varna	B. Kokinov, T. Vamos
2005	Varna	M. Dobreva, L.F. de Mingo, N.Zagoruiko, A.Zakreuskii
2006	Varna	J. Castellanos, G. Totkov
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2009	Varna	A. Krissilov

Krassimir Markov

IJ ITA Founder and Editor in chief