



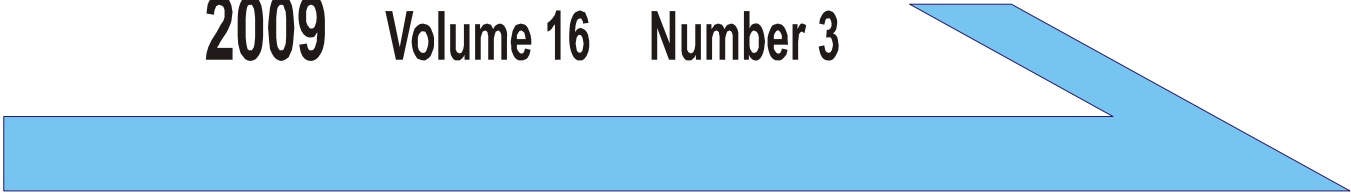
I T H E A



International Journal

**INFORMATION THEORIES
&
APPLICATIONS**

2009 Volume 16 Number 3



International Journal
INFORMATION THEORIES & APPLICATIONS
Volume 16 / 2009, Number 3

Editor in chief: **Krassimir Markov** (Bulgaria)

International Editorial Staff

Chairman: **Victor Gladun** (Ukraine)

Adil Timofeev	(Russia)	Ilia Mitov	(Bulgaria)
Aleksey Voloshin	(Ukraine)	Juan Castellanos	(Spain)
Alexander Eremeev	(Russia)	Koen Vanhoof	(Belgium)
Alexander Kleshchev	(Russia)	Levon Aslanyan	(Armenia)
Alexander Palagin	(Ukraine)	Luis F. de Mingo	(Spain)
Alfredo Milani	(Italy)	Nikolay Zagoruiko	(Russia)
Anatoliy Krissilov	(Ukraine)	Peter Stanchev	(Bulgaria)
Anatoliy Shevchenko	(Ukraine)	Rumyana Kirkova	(Bulgaria)
Arkadij Zakrevskij	(Belarus)	Stefan Dodunekov	(Bulgaria)
Avram Eskenazi	(Bulgaria)	Tatyana Gavrilova	(Russia)
Boris Fedunov	(Russia)	Vasil Sgurev	(Bulgaria)
Constantine Gaidric	(Moldavia)	Vitaliy Lozovskiy	(Ukraine)
Eugenia Velikova-Bandova	(Bulgaria)	Vitaliy Velichko	(Ukraine)
Galina Rybina	(Russia)	Vladimir Donchenko	(Ukraine)
Gennady Lbov	(Russia)	Vladimir Jotsov	(Bulgaria)
Georgi Gluhchev	(Bulgaria)	Vladimir Lovitskii	(GB)

**IJ ITA is official publisher of the scientific papers of the members of
the ITHEA® International Scientific Society**

IJ ITA welcomes scientific papers connected with any information theory or its application.

IJ ITA rules for preparing the manuscripts are compulsory.

The **rules for the papers** for IJ ITA as well as the **subscription fees** are given on www.ithea.org.

The **camera-ready copy of the paper** should be received by <http://ij.ithea.org>.

Responsibility for papers published in IJ ITA belongs to authors.

General Sponsor of IJ ITA is the **Consortium FOI Bulgaria** (www.foibg.com).

International Journal "INFORMATION THEORIES & APPLICATIONS" Vol.16, Number 3, 2009

Printed in Bulgaria

Edited by the **Institute of Information Theories and Applications FOI ITHEA®**, Bulgaria,
in collaboration with the **V.M.Glushkov Institute of Cybernetics of NAS**, Ukraine,
and the **Institute of Mathematics and Informatics, BAS**, Bulgaria.

Publisher: **ITHEA®**
Sofia, 1000, P.O.B. 775, Bulgaria. www.ithea.org, e-mail: info@foibg.com

Copyright © 1993-2009 All rights reserved for the publisher and all authors.

® 1993-2009 "Information Theories and Applications" is a trademark of Krassimir Markov

ISSN 1310-0513 (printed)

ISSN 1313-0463 (online)

ISSN 1313-0498 (CD/DVD)