

ITHEA International Scientific Society



ITA 2013

XVI-th Joint International Scientific Events on Informatics

Dedicated to XX-th anniversary of IJ ITA!

June 29 - July 11, 2013

Hotel "SIRIUS" and Hotel "CHAIKA"

in the resort "St. Constantine & St. Helena", Varna, Bulgaria

October, 2013, Spain,

www.ithea.org

ITA 2013 is supported by:

The ITHEA International Journal

"Information Theories and Applications" (IJ ITA)

The ITHEA International Journal

"Information Technologies and Knowledge" (IJ ITK)

The ITHEA International Journal

"Information Models and Analises" (IJ IMA)

The ITHEA International Book Series

"Information Science and Computing" (IBS ISC)

The ITHEA International Digital Library with Scientific Index

"Information Research and Engineering" (IDL IRE)

ITA 2013

Joint International Scientific Events on Informatics

July 01-10, 2013, Bulgaria; October 01–04, 2013, Spain; December 17-18, 2013 Video-Tele-conference

ITA 2013 Summer Session

KDS 2013		XIX-th International Conference Knowledge - Dialogue - Solution
CFDM 2013		V-th International Conference Classification, Forecasting, Data Mining
MeL 2013		VIII-th International Conference Modern (e-) Learning
iii 2013		IV-th International Conference Information - Interaction – Intellect
i.Tech 2013		XI-th International Conference Information Research and Applications
GIT 2013		XI-th International Conference General Information Theory
INFOS 2013		VI-th International Conference on Intelligent Information and Engineering Systems
IM 2013		Second International Conference Informational Modelling
MIM 2013		Second International Conference Mathematics of Informational Modeling
ISSI 2013		VII-th International Summer School on Informatics

Plenary Sessions' Preliminary Time Table (conference room of the hotel "Sirius")

	29.06.13 30.06.13	01.07.13 Monday	02.07.12 Tuesday	03.07.13 Wednesday	04.07.13 Thursday	05.07.13 Friday	06.07.13 Saturday	07.07.13 Sunday	08.07.13 Monday	09.07.13 Tuesday	10.07.13 11.07.13
10:00–12:00	arrival	KDS	CFDM	MeL	Excursion ITHEA GALA EVENING	iTech	INFOS	iii	IM	MIM	departure
12:00–13:00		Break	Break	Break		Break	Break	Break	Break	Break	
13:00–14:00		ISSI	ISSI	ISSI		ISSI	ISSI	ISSI	ISSI	ISSI	
14:00–16:00		KDS	CFDM	MeL		iTech	INFOS	iii	IM	MIM	
16:00–17:00		Break	Break	Break		Break	Break	Break	Break	Break	
17:00–19:00		KDS	CFDM	MIM		iTech	INFOS	GIT	IM	MeL	
Language:	Russian					English					

ITA 2013 Autumn Session

NIT 2013



IV-th International Conference
Natural Information Technologies

NIT 2013, Madrid, Spain: arrival: 30.09.2013; Sessions: 01-04.10.2013; departure: 05.10.2013

ITA 2013 Winter Session

IM 2013



Second International Conference
Informational Modelling

IM 2013 Winter Session Video-tele-conference managed from Sofia, December 17-18, 2013

Acknowledgements

ITA 2013 is organized by:

ITHEA International Scientific Society (ITHEA ISS)
Association of Developers and Users of Intelligent Systems (ADUIS)

in tight collaboration with:

- FIS Foundations of Information Science (Spain)
- Spanish Network on Biomolecular and Biocellular Computing (Spain)
- National Academy of Sciences of Ukraine
- Federation of the Scientific-Engineering Unions /FNTS/ (Bulgaria)

- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- V.M.Glushkov Institute of Cybernetics of NASU (Ukraine)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- St.Petersburg Institute for Informatics and Automation of RAS (Russia)
- Instituto Aragonés de Ciencias de la Salud (Spain)
- Dorodnicyn Computing Centre of the Russian Academy of Sciences (Russia)
- Institute of Informatics Problems of the RAS (Russia)
- Institute for Informatics and Automation Problems, National Academy of Sciences (Armenia)
- Institute of Mathematics of SD RAN (Russia)
- Institute of Mathematical Problems and Systems of NASU (Ukraine)

- Taras Shevchenko National University of Kiev (Ukraine)
- Universidad Politecnica de Madrid (Spain)
- Rzeszow University of Technology (Poland)
- Educational-scientific complex «Institute for applied system analysis» (Ukraine)
- Kharkiv National University of Radio Electronics (Ukraine)
- Hasselt University (Belgium)
- University of Calgary (Canada)
- Ben-Gurion University (Israel)
- Astrakhan State University (Russia)
- Varna Free University “Chernorizets Hrabar” (Bulgaria)

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Deadlines for ITA 2013

For KDS, CFDM, MeL, i.Tech, III, GIT, INFOS, IM, and MIM, which will be held in Varna, Bulgaria, July 2013

February 28, 2013: submission of **registration forms with request for hotel reservation and visa application forms** by e-mail: info@foibg.com and office@hit-tourism.com

March 31, 2013: submission of **final paper** by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>

April 15, 2013: notification of the **paper acceptance** by the **ITHEA ISS Submission Web System**

For NIT, Madrid, Spain, 02.10-05.10.2013

July 31, 2013: submission of **registration forms and visa application forms** by e-mail: info@foibg.com

August 15, 2013: submission of **final paper** by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>

September 01, 2013: notification of the **paper acceptance** by the **ITHEA ISS Submission Web System**

Submission

The camera-ready copy of the manuscript should be received by the ITHEA Journal Submission System (<http://ij.ithea.org>) or respectively by the ITHEA Conference Submission System (<http://ita.ithea.org>); e-mail for questions: info@foibg.com .

Please observe the rules and deadlines !

Submit registration cards and visa forms to: Krassimir Markov, e-mail: info@foibg.com

Manuscripts

Manuscripts from members of ITHEA International Scientific Society (ITHEA ISS) will be preferably included in the events of ITA 2013.

Membership of ITHEA ISS is free and may be done by registration at the www.ithea.org

Manuscripts need to be formatted in DOC or TeX formats according the sample sheets given at:

- DOC template: http://www.foibg.com/conf/ithea_manuscripts_rules-2013_doc_template.doc

- TeX template: http://www.foibg.com/conf/ithea_manuscripts_rules-2013_tex_template.tex

Accepted manuscripts will be published by ITHEA as follow:

- **regular papers in English or Russian** from 4 up to 12 pages and **long papers or surveys in English** from 12 up to 20 pages will be published in the International Journal "Information Theories and Applications"[®] (IJ ITA), International Journal "Information Technologies and Knowledge"[®] (IJ ITK), and International Journal "Information Models and Analyses"[®] (IJ IMA);

- **books** or specialized thematically organized collections will be published in the ITHEA International Book Series "Information Science and Computing" (IBS ISC).

Papers and Books published by ITHEA as well as **Abstracts in English or Russian** of all works will be free available online at the ITHEA ISS Digital Library and Indexing System: <http://idr.ithea.org> .

ITHEA rules for preparing the manuscripts are compulsory.

Responsibility for manuscripts published in ITHEA International Journals and Book Series belongs to authors.

Please *get permission to reprint* any copyrighted material.

Fees

ITA 2013 Registration Fee is **EURO 250** or **500 Leva** per paper.

Registration fee needs to be paid for every paper, included in the conference program.

Papers of the ITA 2013 will be published in the ITHEA International Journals or in the books of the ITHEA International Book Series (IBS ISC).

One book costs **EUR 20** or **40 Leva**. One journal number costs **EUR 15** or **30 Leva**.

Registration fee includes participation fee *for one person* and permits receiving one exemplar of the issue of the conference in which the paper has been published.

Please, note that the registration fee does not include post expenses.

Post expenses depend of destination but are not less than **EUR 20** or **40 Leva**.

Registration fee for members of ITHEA International Scientific Society (ITHEA ISS): EUR 150 or 300 Leva. It is applicable for the **paper** for Summer Session, Varna, Bulgaria, which meets the following requirements:

- the paper is ***not financed by any other scientific project or other source***;

- the authors are members of ITHEA ISS.

(Membership of ITHEA ISS is free and may be done by registration at the www.ithea.org.)

- the paper contains the acknowledgement:

"The paper is published with partial support by the project ITHEA XXI of the ITHEA ISS (www.ithea.org) and the ADUIS (www.aduis.com.ua)."

No special requests or contracts are needed.

Participation fee is **EURO 50** or **100 Leva**.

Accompanying authors or persons pay only participation fee.

Participation fee does not cover the price of the proceedings of the conference. It covers the organizing expences, including the excursion and the ITHEA Gala Evening.

Contacts for ITA 2013:

Summer Session:	Krassimir Markov info@foibg.com	Vitalii Velychko info@aduis.com.ua	Alexey Voloshin olvoloshyn@ukr.net	Stoyan Poryazov stoyan@math.bas.bg
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Krassimira B. Ivanova krasy78@mail.bg	Ina Markova ina@foibg.com
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Autumn Session:	Juan Castellanos jcastellanos@fi.upm.es	Krassimir Markov info@foibg.com	Sandra Gómez sgomez@eui.upm.es	Krassimira B. Ivanova krasy78@mail.bg
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Winter Session:	Stoyan Poryazov stoyan@math.bas.bg	Vitalii Velychko info@aduis.com.ua	Krassimir Markov info@foibg.com	Krassimira B. Ivanova krasy78@mail.bg
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ITA 2013

Joint International Scientific Events on Informatics

July 01-10, 2013, Bulgaria; October 01–04, 2013, Spain; December 17-18, 2013 Video-Tele-conference

Accommodation for ITA 2013 Summer Session has to be made by:



HIT-Tourism Tur Operator, Varna, Bulgaria

www.hit-tourism.com ; +359 52 361 900; +359 888 794 159

e-mail: office@hit-tourism.com ; Skype: hit_mira

ITA 2013 HOTELS

“*****” **ALL INCLUSIVE: Hotel "SIRIUS"** in the resort “St. Constantine & St. Helena”, Varna, Bulgaria: <http://siriusbeach.com/uk/index.php>

Period:	21.06. - 05.07.2013			06.07. - 20.07.2013		
Prices for Hotel Sirius	BB	HB	ALL	BB	HB	ALL
Person in a double room	43	46	49	48	51	55
Single room	63	66	68	71	75	78

BB: Bed and Breakfast; **HB** (Half-Board): Bed, Breakfast and Dinner; **ALL:** All inclusive.

“*****” **ALL INCLUSIVE LIGHT: Hotel "CHAIKA"**, (in front the hotel "SIRIUS")
<http://hotelchaika.com/index.php?lang=en>

Period:	01.07. - 10.07.2013
Prices for Hotel Chaika	ALL INCLUSIVE LIGHT
Person in a double room	20
Single room	24

ALL INCLUSIVE LIGHT 2013 includes:

Breakfast:/07:30-10:00/; **Lunch:**/12:00-14:00/; **Afternoon breakfast**/16:00-17:00/; **Dinner:**/18:30-21:00/
After 22:00 drinks are paid.

There are other various three and four stars hotels in the complex “St.Constantine & St. Helena”, which are at walking distance to the hotel "SIRIUS". The preferred four stars hotels are:

- *Azalia*: <http://www.azaliahotel.com/en.html>
- *Dolphin Marina*: <http://www.beachbulgaria.com/stellias/dolphinmarina.shtml>
- as well as all other hotels from the *Grand Hotel Varna Chain*: <http://www.grandhotelvarna.com>

IMPORTANT NOTE:

To have **discounts** from the official prices for all hotels, participants have to make reservation and payment **only** by HIT-Tourism Tour Operator and **to send request for reservation not later than February 28, 2013** to both e-mails: office@hit-tourism.com and info@foibg.com .



KDS 2013
XIX-th International Conference
Knowledge - Dialogue - Solution
July 01 - 02, 2013, Varna (Bulgaria)

Aims and Scope

The Conference continues the series of annual international KDS events organized by V.M. Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine and Association of Developers and Users of Intelligent Systems (ADUIS).

Topics of interest

- | | |
|-----------------------------------------|----------------------------------------------------|
| - Applied Information Systems | - NL Text Processing |
| - Data Mining and Knowledge Discovery | - Neural and Growing Networks |
| - Decision Making | - Mathematical methods research of complex systems |
| - Intelligent information technology | - Modern (e-) Learning and intelligent systems |
| - Interdisciplinary Scientific Research | - Philosophy and Methodology of Informatics |
| - Logical Inference | - Problems of Computer Intellectualization |

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Language

The official languages of the Conference are Russian and English.
Work language at the conference time is Russian.



CFDM 2013
VI-th International Conference
Classification, Forecasting, Data Mining
July 02 - 03, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to the current research and applications in the fields of Classification, Clustering, Pattern Recognition, Forecasting, Features Processing, Transformations, Data Mining, and Knowledge Discovery.

Topics of interest

Pattern Recognition and Forecasting
Machine Learning
Data Mining
Classification and Clustering

Inductive Modelling
Features Processing and Transformations
Applications
Image, Speech, Document and Signal Analysis
Knowledge-Based Decision Support Systems

Steering Committee

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Language

The official languages of the Conference are Russian and English.
Work language at the conference time is Russian.



MeL 2013

VIII-th International Conference

Modern (e-) Learning

July 03-04, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the basic directions of modern (e-) learning: Philosophy and Methodology of the Modern (e-) Learning and Modern (e-) Learning Technologies.

Topics of interest

Philosophy and Methodology of the Modern (e-) Learning

- Accreditation and Validation of Modern (e-) Learning Materials
- Learning Communities and Virtual Spaces for Modern (e-) Learning Communities
- Copyright Regulations and Intellectual Property
- Evolution in Teacher Roles through Technology
- Experience and Problems of Implementation of Distance Learning Systems
- Informatics of the Modern Learning
- Instructional Design Theories of Modern (e-) Learning
- Institutional Issues on Technology-based Learning
- Interaction of Classical and Modern (e-) Learning
- Knowledge Market
- Modern (e-) Learning Paradigms
- Organizational Problems of Distance Learning
- Pedagogical and Organisational Frameworks of Modern (e-) Learning
- Pedagogical Approaches - Classical and Modern Didactic Principles of Modern (e-) Learning
- Policies on Technology-based Learning
- Psychological and Ergonomic Aspects of Modern (e-) Learning
- Social Aspects of Modern (e-) Learning
- Standardisation of the Modern (e-) Learning Materials
- Standards and Quality Requirements for the Certification and Assessment of the Learners' Progress
- Teaching Aspects of Modern (e-) Learning

Modern e-Learning Technologies

- Information Retrieval and Visualization in e-Learning
- Multimedia Educational Systems
- Media for Learning in Multicultural Settings
- Mobile e-Learning Applications
- P2P e-Learning Applications
- Social Aspects in Collaborative e-Learning Systems
- Standardization in e-Learning Technologies (incl. Learning Objects, Learning Designs, Modelling Languages)
- Technology-based Blended, Distance and Open Learning
- Technology-Facilitated Learning in Complex Domains
- Technologies for advanced Teacher Training
- Technology and Human Resource Issues
- Using AI/Semantic Web Technologies for Personalized and Contextual Learning
- Web-based Educational Information Systems

ITA 2013

Joint International Scientific Events on Informatics

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Vladimir Bugrov (Ukraine)
Vladimir Donchenko (Ukraine)
Yury Zaychenko (Ukraine)

Language

The official languages of the Conference are English and Russian.
Work language at the conference time is Russian.



i-i-i 2013

IV-th International Conference
Information - Interaction - Intellect
July 04 - 06, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the intelligent systems development:

Topics of interest

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">- AI in Risk Management and GMES- Decision Making- NL Text Processing | <ul style="list-style-type: none">- Intelligent Technologies in Control and Design- Multi-agent Structures and Systems- Neural Networks |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Yevgeniy Bodyanskiy (Ukraine)
Yury Zaychenko (Ukraine)

Language

The official languages of the Conference are Russian and English.
Work language at the conference time is Russian.



i.Tech 2013

XI-th International Conference

Information Research and Applications

July 06 - 07, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the basic directions of computer science.

Topics of interest

- | | |
|---------------------------|---------------------------------------------|
| - Applied Program Systems | - Information Systems |
| - Business Informatics | - Multimedia Systems |
| - Cyber Security | - Distributed and Telecommunication Systems |
| - Hyper Technologies | - Quality of the Programs |
| - Information Modelling | - Software Engineering |

Steering Committee

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Language

The official languages of the Conference are English and Russian.
Working language at the conference time is English.



GIT 2013

XI-th International Conference
General Information Theory
July 04 - 06, 2013, Varna (Bulgaria)

Aims and Scope

The conference objective is to present and discuss current achievement in the fields of the General Information Theory.

General Information Theory (GIT) is considered here not only as a pure theoretical discipline. While matter and energy are the foundation of material World, information is the foundation of the mental world as well as of the interactions in alive beings and within their communities. It is the leading factor in evolution and genetics. It is the basis of intellectual activity. Studying intelligence, we should take broader approach discovering the role of information, generally speaking, in life. The time has come to work out more uniform and general, deeper understanding of information processes which support the noosphere.

In this, broader sense, we should again and again turn our attention to the philosophy, interrelations between material and mental, correlate the notion of information in communication, biology, humanitarian areas and the physics of micro world.

We strongly believe that the progress in AI is tightly tied with our deeper understanding of informational processes, in general. The conference is dedicated to this broad issue.

Topics of interest

Include, but are not limited to the main areas of GIT: (1) Theory of the Information, (2) Theory of the Information Subject (INFOS), and (3) Theory of the Information Interaction (INFORACTION):

Philosophy

- Philosophical background: material and mental – their coexistence and cooperation; the role of humanitarian and natural science knowledge
- Creation of paradigms by intellectual systems
- Information and knowledge; information and life

Cognitology, Gnoseology and Semiotics

- Theory and methodology of World cognition by intellectual systems and communities; intellectual instruments of cognition: hypothesis, theories, experimental verification and falsification, role of knowledge systems: knowledge, experience, beliefs, conventions, prejudices, religions, myths, formal and metaphorical reasoning; consciousness and selfconsciousness
- Semiotics of knowledge acquisition and model construction
- Evolution and informational processes

Modern Physics

- Physics of information processes and informational background of physics
- What give quantum mechanics and other theories of microworld to our understanding of information exchange; principle of non locality, “spooky action at a distance”

Noosphere

- **Noosphere and its informational component, simulated objects with different noosphere statuses**
- AI systems' creation within the frame of integrated interaction with environment and goal oriented activity

Humanitarian Aspects

- Modeling Informational interaction in Nature and society: physical, social systems (psychology, egregors, sociopsychology) and beyond

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Steering Committee

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Anatoly Krissilov (Ukraine)
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Yevgeniy Bodyanskiy (Ukraine)

Language

The official languages of the conference are English and Russian.

Working language at the conference time is English with translation to/from Russian.



INFOS 2013
VI-th International Conference
Intelligent Information and Engineering Systems
July 07 - 08, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to discussion of current research and applications regarding the knowledge-based intelligent information and engineering systems.

Topics of interest

Topics of interest include but are not limited to:

Theoretical foundations:

Cognitive Modeling,
Genetic Algorithms and Evolutionary Computing,
Expert Systems,
Fuzzy Techniques and Systems,
Hybrid Intelligent Systems,
Intelligent Agents and Multi-Agent Systems,
Data Mining,
Knowledge Acquisition.
Knowledge-Based Systems,
Knowledge Discovery,
Knowledge Representation and Management,
Natural Language Processing,
Neural Networks,
Neuro-fuzzy systems
Machine Learning,
Spatial and Temporal Reasoning,
Soft Computing Techniques

Intelligent Applications:

Artificial Intelligence in Modeling and Simulation,
Bioinformatics using Intelligent and Machine Learning Techniques, Image Processing,
Human-Robot interaction,
Business Intelligence Systems,
Industrial Control and Monitoring,
Information Agents on the Internet,
Intelligent Natural Language Systems,
Intelligent Robots,
Intelligent User Interfaces,
Intelligent Web Mining and Applications,
Mechanical Applications,
Machine and Computer Vision,
Medical and Diagnostic Systems,
Multi-Media Intelligent Information Systems,
Speech Processing and Synthesis
Virtual Production, Virtual Design

ITA 2013

Joint International Scientific Events on Informatics

July 01-10, 2013, Bulgaria; October 01–04, 2013, Spain; December 17-18, 2013 Video-Tele-conference

Steering Committee

Galina Setlak, Rzeszow University of Technology, Poland

Krassimir Markov, Institute on Information Theories and Applications, Bulgaria

Program Committee

Alexey Voloshyn (Ukraine)

Adil Timofeev (Russia)

Jacek Kluska (Poland)

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Vladimir Ryazanov (Russia)

Yevgeniy Bodyanskiy (Ukraine)

Yuriy Zaichenko (Ukraine)

Volodymyr Stepashko (Ukraine)

Language

The official language is English.

For contacts

Galina Setlak, e-mail: gsetlak@prz.edu.pl



IM 2013

Second International Conference

Informational Modelling

July 08 - 09, 2013, Varna (Bulgaria)

Aims and Scope

The conference is devoted to the current research in the fields of concepts, methods, languages and tools of Informational Modelling and Simulation and its applications.

The aim of the Conference is exchange the ideas and expertise among experts in industry, research and education and not formal coordination of their efforts respecting Information Society challenges.

Topics of the conference

1. Informational Modeling (IM) and Simulation (IM&S) - Concepts, Paradigms, Approaches and Languages.
 - Modeling and Simulation (M&S) Body of Knowledge.
 - Knowledge Based IM&S. IM&S languages.
 - IM&S Heterogeneous Structures and Scalability. High Level Architecture (HLA), Agent Based IM&S.
2. IM&S Efficiency Enhancements.
 - Methods for Efficiency Estimation, Comparison and Enhancement. Cooperative, Parallel and Distributed IM&S Efficiency.
 - Accuracy enhancement and simulation speeding; Simulation Experiments Design.
 - Real and IM&S Information Storage and Transmission Formats; Data Analysis and Comparison Methods; Data Mining.
 - Dynamic Adaptation and Personalization of the Human–Computer–Model Interaction.
3. IM&S Efficacy Estimation and Life Cycle Management
 - Meta-modeling; Econometrical Meta-Models; M&S Efficacy Indicators.
 - M&S Detailness and Life Cycle Optimization in respect of Designed Product Life Cycle Management. Emergency Cases.
 - Methods for Verification and Validation in IM&S Life Cycle.
4. IM&S Application Development Methods and Best Practices in Industry, Education and Science.
 - IM&S Impact in Industry
 - IM&S in Science and Technology (S&T). Specifics in Information and Communication S&T.
 - IM&S in and for Education
 - IM&S in Knowledge Market & Business Informatics.

Steering Committee

Stoyan Poryazov (Bulgaria)

Krassimir Markov (Bulgaria)

Program Committee

Alexander Palagin (Ukraine)

Hasmik Sahakyan (Armenia)

Natalia Pankratova (Ukraine)

Alexey Voloshin (Ukraine)

Igor Galeluca (Ukraine)

Olga Kalynychenko (Ukraine)

Anatolij Kornienko (Russia)

Ivan Ganchev (Ireland)

Tamila Titova (Russia)

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Emiliya Saranova (Bulgaria)

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Vladimir Romanov (Ukraine)

Galina Gaivoronskaya (Ukraine)

Liudmila Lyadova (Russia)

Vladimir Shelestov (Ukraine)

Gurgen Khachatryan (Armenia)

Natalia Ivanova (Russia)

Yrii Zaichenko (Ukraine)

Natalia Kussul (Ukraine)

Language

The official languages of the Conference are English and Russian .



MIM 2013

Second International Conference

Mathematics of Informational Modeling

July 09 - 10, 2013, Varna (Bulgaria)

Aims and Scope

The conference objective is to present and discuss current achievement in the fields of the Mathematics of Informational Modelling. This area constitutes the mathematical foundation of information science (informatics). It includes Type Theory, Mathematical Logic (for Computer Science), Program Theory, Program Verification, Theory on Algorithm, Information Theory, Coding Theory, Cryptology, and so on.

The basic objective of the conference is the formulation and analysis of adequate mathematical models for the description and solution of practical engineering and related problems based on the understanding of their underlying informational structure, with the ultimate aim of contributing to the development of human society.

Topics of interest

Topics of interest include but are not limited to:

- Automata theory and models;
- Big data technique and visualization;
- Chaos and self-organization models;
- Complex systems modeling and complexity of algorithms;
- Connectionism and Neural nets, Wavelet-neurons, and Emerging modeling objects;
- Cryptographic methods and protocols, Reliable and Secure Telecommunications;
- Discrete geometry, Distances and Similarities, Tomography;
- Financial mathematics, serious games;
- Generalized nets and models;
- Intuitionistic logic and Substructural logic;
- Learning and Intelligence algorithms;
- Modelling, Simulation, and Emulation: Mathematical theory, Formal verification;
- Multisets theory and its applications;
- Numerical methods of mathematical physics;
- Parallel algorithms, scientific computation and clouds;
- Theory of named sets and its applications;
- Uncertainty, Intuitionistic Fuzzy Sets - Theory and Applications

Steering Committee

Levon Aslanyan (Armenia)
Krassimir Atanasov (Bulgaria)

Stoyan Poryazov (Bulgaria)
Krassimir Markov (Bulgaria)

Program Committee

Alexey Petrovskiy (Russia)
Dmitro Buy (Ukraine)
Emil Molnár (Hungary)
Emiliya Saranova (Bulgaria)
Gurgen Khachatryan (Armenia)
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Ognyan Kounchev (Bulgaria)
Sergey Krivii (Ukraine)
Sisir Roi (India)
Volodimir Donchenko (Ukraine)
Yevgeniy Bodyanskiy (Ukraine)

Language

The official language of the conference is English.

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NIT 2013

IV-th International Conference

Natural Information Technologies

October 01- 04, 2013, Madrid (Spain)

Aims and Scope

Natural Computing can be broadly defined as the development of computer programs and computational algorithms using metaphorical inspiration from system and phenomena that occur in the natural world. Fundamentals of Natural Computing: Basic Concepts, Algorithms, and Applications present a wide-ranging survey of novel techniques and important applications of nature-based computing.

The goal of NIT 2010 is to offer a platform to critically assess present findings in the field, and to outline future developments in nature-inspired computing.

Original papers describing current research in the areas given below are invited, but other relevant areas also welcome. Papers in application areas of the same fields will also be considered.

Topics of interest

Topics of interest include, but are not limited to:

NATURAL COMPUTING

- Cellular Computing
- DNA Computing
- Evolutionary Computation
- Membrane Computing
- Molecular Computing
- Neural Computing
- Quantum Computing

APPLICATIONS OF NIT

- Bioinformatics
- Data Mining and Knowledge Discovery
- Decision Making and Decision Support Systems
- Evolvable Hardware
- Information Retrieval
- Knowledge Management
- Multi-agent Structures and Systems
- Natural Language Processing
- Robotics
- Synthetic Biology
- Web Intelligence

ITA 2013

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Steering Committee

Krassimir Markov, Institute on Information Theories and Applications, Bulgaria
Juan Castellanos, Universidad Politécnica de Madrid, Spain
Levon Aslanyan, Institute for Informatics and Automation Problems, Armenia

Program Committee

Abraham Gutierrez, Universidad Politécnica de Madrid, Spain
Carmen Vidaurre, Berlin Institute of Technology, Germany
Erzsebet Csuha-J-Varju, Hungarian Academy of Sciences, Hungary
Fernando Arroyo, Universidad Politécnica de Madrid, Spain
Fivos Panetsos, Universidad Complutense, Spain
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Hasmik Sahakyan, Institute for Informatics and Automation Problems, Armenia
Iliya Mitov, Institute on Information Theories and Applications, Bulgaria
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Kostas Chrysagis, Center for Technology Research and Innovation - CETRI, Greece
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Marion Oswald, Hungarian Academy of Sciences, Hungary
Martyn Amos, Manchester Metropolitan University, United Kingdom
Pedro Clemente Marijuan Fernandez, Aragon Institute of Health Sciences (I+CS), Spain
Rudolf Freund, Technische Universität Wien, Austria
Tasos Bezerianos, University of Patras, Greece
Victor Mitran, University of Bucharest, Romania
Vincenzo Manca, Università di Verona, Italy
Vladimir Ryazanov, Dorodnicyn Computing Centre of RAS, Russia
Yevgeniy Bodyanskiy, Kharkiv University, Ukraine

Organizing Committee

Abraham Gutierrez, Universidad Politécnica de Madrid, Spain
Paula Cordero, Universidad Politécnica de Madrid, Spain
Sandra Gómez, Universidad Politécnica de Madrid, Spain
e-mail: nit@eui.upm.es

Language

The official language of the Conference is English.

Conference Location

The conference will be held in Escuela Universitaria de Informática, Universidad Politécnica de Madrid, Spain.

For contacts

- Krassimir Markov, e-mail: info@foibg.com
- Juan Castellanos, e-mail: jcastellanos@fi.upm.es
- Sandra Gómez, e-mail: nit@eui.upm.es



ISSI 2013

VII-th International Summer School on Informatics

July 01 – 10, 2013, Varna (Bulgaria)

Aims and Scope

The Summer School is devoted to discussion of current research, applications and education regarding the basic directions of business informatics.

Topics

Theoretical Foundations of Informatics: Conceptions, Languages, Modelling Technologies, Metrics and Measurements, Information Visualization

Tools and Applications: Tools for Information Modeling, Applied Systems for Information Service, Information Access Methods and Collaboration Tools, Information Security and Reliability, New customer engagement models enabled by Informatics Tools

Informatics of/in Education (IE): IE Conceptions, including relation to other/traditional fields of study, Computer Aided IE, Methodology of IE

Steering Committee

Juan Castellanos (Spain)
Levon Aslanyan (Armenia)
Koen Vanhoof (Belgium)
Krassimir Markov (Bulgaria)

Alexander Kuzemin (Ukraine)
Alexey Voloshin (Ukraine)
Evgeny Eremin (Russia)
Avram Eskenazi (Bulgaria)

Lyudmila Lyadova (Russia)
Luis Fernando de Mingo (Spain)
Stoyan Poryazov (Bulgaria)
Nely Maneva (Bulgaria)

Language

The official languages of the Summer School are English and Russian.

Working languages at the Summer School time are Russian (01-05.07.2013) and English (06-10.07.2013).

Important information for participants in ITA 2013, Varna, Bulgaria

Please read carefully!

1. Contacts

Mobile numbers of the members of the committee to be used during conference time:
+359 878 89 07 07, +359 878 89 07 25

2. Travel to the conference

1.1. From Varna

The St.St. Constantine and Helens Resort with Sirius and Chiaka Hotels are located less than 10 km by the way from Varna to the Golden Sands resort. Please, see the map below.

The buss from Varna is No.: 8. From Ariport – bus No.: 409 to buss stop “Minior” and walk 200 meters downto sea.

1.2. From Sofia

Besides the direct flight to Varna and/or the transfer flight from Sofia, there are two possible variants to get from Sofia to Varna:

- by train from the Central Railway Station: www.bdz.bg

- by bus from the Central Bus Station (right beside the Central Railway Station: www.centralnaavtogara.bg .)

1.3. In Sofia

The transportation from the Sofia Airport to the Central Railway Station and the Central Bus Station can be as follows: By bus – 84 or 284 from the Airport to “Hotel Pliska” stop, and then 213 or 214 to the Central Station.

Note: Luggage bigger than the average will require an extra ticket as well.

- shuttle-bus - from the airport to the station. The price is 1.50 BGN (possible additional taxes for the luggage).

- taxicab: **we do not recommend** to use this transport, or in case you do always check the prices on the stickers on the windows, because the foreigners especially are often offered incredibly high prices.

2. Medicines

We want to remind if you use some special medicines not to forget them.

3. Currency

The fixed official exchange rate: 1 EUR = 1.95583 BGN (leva).

In the change offices the exchange rate may vary from 1.9 to 1.95.

When you change money, please be careful when choosing the change office. At the airport usually the rates are not preferable.

Some change offices use on their front tables fixings which aren't used for the standard procedures – it might be for write the fixing on the front table, which is not the real rate for usual exchange (it may be the rate for checks or for exchanged amount more than 10,000 lv.). Please, always read the all the notices (usually written with smaller letters) and ask the clerk for the exact total you'll receive from the exchange.

We recommend exchanging not more than 50 EUR or USD at a time.

Caution!

Be careful with your money, documents and other important personal belongings.

Make sure you keep them safe with yourself, not putting them in your luggage, as you can easily become a victim of pickpockets or thieves otherwise.

Please be alert in the city public transport as well as in the bus/train when approached by strangers and never leave your baggage unattended.

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