

# *ITHEA International Scientific Society*



## *ITA 2010*

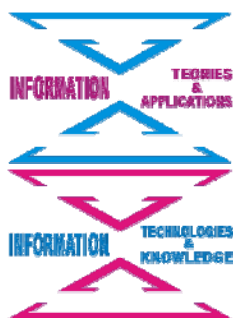
### *Joint International Scientific Events on Informatics*

*June 20 - July 02, 2010, Varna, Bulgaria  
September - October, 2010, Ukraine, Poland, Spain,  
[www.ithea.org](http://www.ithea.org) [www.foibg.com](http://www.foibg.com)*

ITA 2010 is dedicated to:

### *XX<sup>th</sup> anniversary of FOI BULGARIA*

ITA 2010 is supported by:



The International Journal  
**"Information Theories and Applications"**

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**"Information Science and Computing"**



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**ITA 2010**

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

***ITA 2010 Main Scientific Events***



**CFDM 2010**

Second International Conference  
**Classification, Forecasting, Data Mining**



**i.Tech 2010**

VIII-th International Conference  
**Information Research and Applications**



**i³i 2010**

International Conference  
**Information - Interaction - Intellect**



**KDS 2010**

XVI-th International Conference  
**Knowledge - Dialogue - Solution**



**MeL 2010**

Fifth International Conference  
**Modern (e-) Learning**



**INFOS 2008**

Third International Conference on  
**Intelligent Information and Engineering Systems**



**NIT 2010**

International Conference  
**Natural Information Technologies**



**CML 2010**

XIIth International Conference  
**Cognitive Modeling in Linguistics**



**ISK'2010**

Third International Conference  
**Informatics in the Scientific Knowledge**



**ISSI 2010**

Forth International Summer School on  
**Informatics**

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**Preliminary Time Tables**

**ITA 2010, Summer Session, Varna, Bulgaria**

Hotel "Panorama" in the St. Constantine & Helena resort.

	21.06.10 Monday	22.06.10 Tuesday	23.06.10 Wednesday	24.06.10 Thursday	25.06.10 Friday	26.06.10 Saturday	27.06.10 Sunday	28.06.08 Monday	29.06.10 Tuesday	30.06.10 Wednesday	01.07.10 Thursday	02.07.10 Friday	
10:00			iii	Excursion to the river Kamchiya	iTech	iii	iTech	ISSI	ISSI	ISSI	Work meetings	Work meetings	
10:30	CFDM	CFDM			Break	Break	Break	Break	Break	Break			
11:00					Break	Break	Break	Break	Break	Break			
11:30	Break	Break	Break		iTech	iii	iTech	ISSI	ISSI	ISSI			
12:00	CFDM	CFDM	iii		Break	Break	Break	Break	Break	Break			
13:00	Break	Break	Break		Break	Break	Break	Break	Break	Break			
15:00					iTech	iii	iTech	ISSI	GIT	ISSI			GIT
15:20	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI			GIT
15:40	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI			GIT
16:00	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI			GIT
16:20	Break	Break	Break	Break	Break	Break	Break	Break	Break				
16:40				<b>ITHEA GALA EVENING</b>	iTech	iii	iTech	ISSI	GIT	ISSI	GIT		
17:00	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI	GIT		
17:20	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI	GIT		
17:40	CFDM	CFDM	iii		iii	iTech	iTech	ISSI	GIT	ISSI	GIT		
18:00	Break	Break	Break	Break	Break	Break	Break	Break	Break	Break			

ISK 2010 will take place in the Varna Free University

24.06.10 Thursday	25.06.10 Friday	26.06.10 Saturday
<b>ISK</b>	<b>ISK</b>	<b>ISK</b>

**ITA 2010 Autumn Session**

KDS 2010, September 06-08, Kiev, Ukraine

MeL 2010, September 09-10, Kiev, Ukraine

CML 2010 September 6 – 12, 2010, Dubrovnik (Croatia)

INFOS 2010, September 20-24, Krynica, Poland

NIT 2010, September 28-October 02, Madrid, Spain

## ITA 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

### Deadlines for ITA 2010

#### **For CFDM, i.Tech, III, GIT, which will be held in Varna, Bulgaria, June 2010**

May 17, 2010: submission of **final paper** by the [ITHEA ISS Submission Web System: http://ita.ithea.org](http://ita.ithea.org)

May 30, 2010: notification of the **paper acceptance** by the [ITHEA ISS Submission Web System](http://ita.ithea.org)

May 30, 2010: submission of **registration forms** and **visa application forms** by e-mail: [info@foibg.com](mailto:info@foibg.com)

#### **For ISK, which will be held in Varna, Bulgaria, June 2010**

please, follow the link <http://www.vfu.bg/en/index.php>

#### **For KDS, MeL, which will be held in Kiyv, Ukraine, September 2010**

June 1, 2010: submission of **final paper** by the [ITHEA ISS Submission Web System: http://ita.ithea.org](http://ita.ithea.org)

July 15, 2010: notification of the **paper acceptance** by the [ITHEA ISS Submission Web System](http://ita.ithea.org)

August 1, 2010: payment of 50% of **registration fee**.

**Only paper with paid registration fee will be published.**

August 1, 2010: submission of **registration forms** and **visa application forms** by e-mail: [info@foibg.com](mailto:info@foibg.com)

#### **For INFOS, Krynica, Poland, 20-24.09.2010**

please, follow the link <http://infos.prz.edu.pl>

#### **For NIT, Madrid, Spain, 28.09-02.10.2010**

May 31, 2010: submission of **final paper** by the [ITHEA ISS Submission Web System: http://ita.ithea.org](http://ita.ithea.org)

June 30, 2010: notification of the **paper acceptance** by the [ITHEA ISS Submission Web System](http://ita.ithea.org)

July 31, 2010: submission of **registration forms** and **visa application forms** by e-mail: [info@foibg.com](mailto:info@foibg.com)

### Manuscripts

Manuscripts from members of ITHEA International Scientific Society (ITHEA ISS) will be preferably included in the events of ITA 2010. Membership of ITHEA ISS is free and may be done by registration at the [www.ithea.org](http://www.ithea.org) or [www.foibg.com](http://www.foibg.com).

Manuscripts need to be formatted according the the [sample sheet](http://www.foibg.com/conf/ithea_manuscripts_rules-2010.doc) given at [http://www.foibg.com/conf/ithea\\_manuscripts\\_rules-2010.doc](http://www.foibg.com/conf/ithea_manuscripts_rules-2010.doc) .

Accepted manuscripts will be published as follow:

- **surveys** from 12 up to 20 pages will be published in the International Journal "Information Theories and Applications"® (IJ ITA) or International Journal "Information Technologies and Knowledge"® (IJ ITK);
- **regular papers** from 4 up to 12 pages will be published in specialized thematically organized collections in the International Book Series "Information Science and Computing" (IBS ISC);
- **papers less than 4 pages** will be assumed as extended abstracts and will be published in the ITHEA ISS International Review Journal "Information Research and Engineering";
- **books** or specialized thematically organized collections will be published in the International Book Series "Information Science and Computing" (IBS ISC).

**Abstracts** of manuscripts published by ITHEA are available online at the ITHEA ISS collaboration web site: <http://wiki.ithea.org>

Responsibility for papers published in ITHEA International Journals and Book Series belongs to authors. Please *get permission to reprint* any copyrighted material.

### 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](mailto:info@foibg.com).

***Please observe the rules and deadlines !***

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**Fees**

**NOTE: FEES INCLUDE VAT!**

**ITA 2010 Registration Fee is EURO 240 per paper.**

Registration fee is composed by **participation fee** and **publication fee**.

**Participation fee** needs to be paid for every person, who participate in the conference, nevertheless with or without paper. Accompanying persons pay only participation fee.

Participation fee is **EURO 60**. Participation fee for Bulgarian participants is **120** leva.

Participation fee does not cover the price of the proceedings of the conference.

**Publication fee** needs to be paid for every paper, included in the conference proceedings.

Publication fee is **EURO 180**. Publication fee for Bulgarian participants is **360** leva.

Publication fee permits receiving one exemplar of the proceedings of the conference in which the paper has been published.

Sponsorships for ITA 2010, First Part, Varna, Bulgaria:

The Sponsors will grant partial financing of EURO 100 to every paper which meets the Sponsor's requirements:

- the paper is not financed by any scientific project;
- the authors are members of ITHEA International Scientific Society (ITHEA ISS). Membership of ITHEA ISS is free and may be done by registration at the [www.ithea.org](http://www.ithea.org) or [www.foibg.com](http://www.foibg.com).
- the paper contains the acknowledgement:

*"The paper is published with financial support by the project ITHEA XXI of the Institute of Information Theories and Applications FOI ITHEA ([www.ithea.org](http://www.ithea.org)) and the Association of Developers and Users of Intelligent Systems ADUIS Ukraine [www.aduis.com.ua](http://www.aduis.com.ua) ". "*

No special requests or contracts are needed.

**NOTE: Only for KDS 2010**

*Sponsorship by the project ITHEA XXI for publication fee is EURO 165 and for registration fee is EURO 35 per paper. (Организационный взнос для граждан СНГ с учетом гранта ITHEA XXI составляет 350 гривен или 1350 российских рублей за публикацию).*

*Sponsorships by the project ITHEA XXI for registration fee for students and PhD students is EURO 25 per paper provided that personal authorship of paper.*

*(Организационный взнос для студентов и аспирантов с учетом гранта ITHEA XXI составляет 250 гривен или 970 российских рублей за публикацию при условии единоличного авторства представленной статьи).*

**Proceedings' prices:**

Proceedings of the ITA 2010 will be published in several separate books of the IBS ISC.

Usually, papers from given conference are published in more than one book.

Publication (but not participation) fee permits receiving one exemplar of the proceedings of the conference in which the paper has been published. Please, note that publication fee does not include post expenses.

One book of IBS ISC costs **EUR 18**.

Post expenses per book are **EUR 18**.

### Bank accounts

**NOTE: NEW BANK ACCOUNTS!**

The registration fee in EURO should be paid to:

IBAN: **BG60 BPBI 7922 1437 9857 01**;  
BIC: **BPBI BGSF**;  
Bank name: **Eurobank EFG Bulgaria AD**  
Account holder: **FOI Consult Ltd.**

**All bank commissions must be paid by the sender!**

Registration fee in Bulgarian Leva should be paid to:

IBAN: **BG78 BPBI 7922 1037 9857 01**;  
BIC: **BPBI BGSF**;  
Bank name: **Eurobank EFG Bulgaria AD**  
Account holder: **FOI Consult Ltd.**

**All bank commissions must be paid by the sender!**

Please send by e-mail the data for the Organization for Invoice.

- Name of the organization;
- VAT-number;
- Address;
- Name of the person for the invoice;
- Comment (if you have some special requirements for the invoice – for instance including the project number in the text of the invoice, etc.)

The originals of the invoices will be received at the conference desk.

**Реквизиты для оплаты организационного взноса в украинских гривнах:**

Одержувач: **Асоціація АСКІС**

код ЄДРПОУ **16476689**

р/р **26001301300603**

**в Філія Старокіївське відділення Промінвестбанку в м.Київ**

**МФО 322227**

Призначення платежу: **Організаційний внесок за участь у конференції KDS 2010 Фамілія автора, сума без ПДВ**

Комиссия банка оплачивается плательщиком платежа!

При оплате организационного взноса в российских рублях по безналичному расчету или в другой валюте свяжитесь с оргкомитетом конференции по e-mail: (info@aduis.com.ua).

*For contacts:*

**Krassimir Markov**  
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**Juan Castellanos**  
[jcastellanos@fi.upm.es](mailto:jcastellanos@fi.upm.es)

**Vitalii Velychko**  
[info@aduis.com.ua](mailto:info@aduis.com.ua)

**Sandra Gómez**  
[sgomez@eui.upm.es](mailto:sgomez@eui.upm.es)



## CFDM 2010

Second International Conference

### **Classification, Forecasting, Data Mining**

June 21 - 24, 2010, Varna (Bulgaria)

#### *Conference organizers*

- ITHEA International Scientific Society
- Dorodnicyn Computing Centre of the Russian Academy of Sciences
- V.M.Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Association of Developers and Users of Intelligent Systems(Ukraine).

#### *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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Vladimir Ryazanov (Russia)  
Ivan Sergienko (Ukraine)

#### *Program Committee*

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Viktor Krasnoproshin (Belarus)  
Vladimir Shylo (Ukraine)  
Vladimir Norkin (Ukraine)  
Volodymyr Stepashko (Ukraine)

#### *Language*

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



## i.Tech 2010

VIII-th International Conference

### **Information Research and Applications**

June 24 - 27, 2010, Varna (Bulgaria)

#### *Conference organizers*

- ITHEA International Scientific Society
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Ben-Gurion University (Israel)
- Hasselt University (Belgium)
- University of Calgary (Canada)
- Universidad Politecnica de Madrid (Spain)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- V.M.Glushkov Institute of Cybernetics National Academy of Sciences of Ukraine
- Taras Shevchenko National University of Kiev (Ukraine)
- Kharkiv National University of Radioelectronics, (Ukraine)
- Association of Developers and Users of Intelligent Systems (Ukraine)

#### *Aims and Scope*

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

#### *Topics of interest*

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>- Applied Program Systems</li><li>- Business Informatics</li><li>- Cyber Security</li><li>- Hyper Technologies</li><li>- Information Modelling</li></ul> | <ul style="list-style-type: none"><li>- Information Systems</li><li>- Multimedia Systems</li><li>- Distributed and Telecommunication Systems</li><li>- Quality of the Programs</li><li>- Software Engineering</li></ul> |
|--|---|

#### *Steering Committee*

Victor Gladun (Ukraine)	Alexey Voloshyn (Ukraine)
Avram Eskenazi (Bulgaria)	Luis Fernando de Mingo (Spain)
Krassimir Markov (Bulgaria)	

#### *Program Committee*

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Adil Timofeev (Russia)	Laura Ciocoiu (Romania)
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Kannan Rajkumar (India)	Stoyan Poryazov (Bulgaria)
Koen Vanhoof (Belgium)	Vladimir Ryazanov (Russia)

#### *Language*

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

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June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain



**ii i 2010**

International Conference

## **Information - Interaction - Intellect**

June 23 - 27, 2010, Varna (Bulgaria)

### *Conference organizers*

- ITHEA International Scientific Society
- Association of Developers and Users of Intelligent Systems (Ukraine)
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Ben-Gurion University (Israel)
- Hasselt University (Belgium)
- University of Calgary (Canada)
- Universidad Politecnica de Madrid (Spain)
- V.M.Glushkov Institute of Cybernetics of NASU (Ukraine)
- Institute of Mathematical Problems and Systems of NASU (Ukraine)
- National Academy of Sciences of Ukraine
- Kharkiv National University of Radio Electronics (Ukraine)
- Taras Shevchenko National University of Kiev (Ukraine)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Institute of Mathematics of SD RAN (Russia)

### *Aims and Scope*

The conference is a successor of the KDS international conference which will take place only in Ukraine. It is devoted to discussion of current research and applications regarding the intelligent systems development:

### *Topics of interest*

- AI in Risk Management and GMES
- Decision Making
- NL Text Processing
- Intelligent Technologies in Control and Design
- Multi-agent Structures and Systems
- Neural Networks

### *Steering Committee*

Krassimir Markov (Bulgaria)  
Alexander Palagin (Ukraine)

Vitalii Velychko (Ukraine)  
Alexey Voloshin (Ukraine)

### *Program Committee*

Adil Timofeev (Russia)  
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Anatolii Gupal (Ukraine)  
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Vladimir Donchenko (Ukraine)  
Vladimir Lovitskii (UK)  
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.

## ITA 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain



## KDS 2010

XVI-th International Conference

### Knowledge - Dialogue - Solution

September 06 - 08, 2010, Kyiv (Ukraine)

#### Conference organizers

- ITHEA International Scientific Society
- V.M.Glushkov Institute of Cybernetics of National Academy of Sciences of Ukraine
- Association of Developers and Users of Intelligent Systems (Ukraine)
- National Academy of Sciences of Ukraine
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Taras Shevchenko National University of Kiev (Ukraine)
- Kharkiv National University of Radio Electronics (Ukraine)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Institute of Mathematics of SD RAN (Russia)

#### 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
- Data Mining and Knowledge Discovery
- Decision Making
- Intelligent information technology
- Interdisciplinary Scientific Research
- Logical Inference
- NL Text Processing
- Neural and Growing Networks
- Mathematical methods research of complex systems
- Philosophy and Methodology of Informatics
- Problems of Computer Intellectualization

#### Steering Committee

Ivan Sergienko(Ukraine)  
Victor Gladun (Ukraine)  
Krassimir Markov (Bulgaria)

Alexander Palagin (Ukraine)  
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Igor Emchenko

Mykola Petrenko  
Oleksandra Skripnik

Vitalii Velychko  
Volodymyr Opanasenko

#### Language

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

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## MeL 2010

Fifth International Conference

### **Modern (e-) Learning**

September 09 - 10, 2010, Kyiv (Ukraine)

#### *Conference organizers*

- ITHEA International Scientific Society
- Taras Shevchenko National University of Kiev (Ukraine)
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Astrakhan State University (Russia)
- Kharkiv National University of Radioelectronics, (Ukraine)
- V.M.Glushkov Institute of Cybernetics, NAS (Ukraine)
- Institute of Mathematics and Informatics, BAS (Bulgaria)
- Varna Free University "Chernorizets Hrabar" (Bulgaria)
- Association of Developers and Users of Intelligent Systems (Ukraine)

#### *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

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- 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

### *Steering Committee*

Alexey Voloshin (Ukraine)  
Jean Schreurs (Belgium)  
Krassimir Markov (Bulgaria)

Larissa Zaynutdinova (Russia)  
Liudmila Lyadova (Russia)  
Oleg Zakusilo (Ukraine)

### *Program Committee*

Adil Timofeev (Russia)  
Alexander Kuzemin (Ukraine)  
Anatolii Gupal (Ukraine)  
Anatoly Krissilov (Ukraine)  
Avram Eskenazi (Bulgaria)  
Darina Dicheva (USA)  
Dmitriy Buy (Ukraine)  
George Totkov (Bulgaria)  
Igor Lyashenko (Ukraine)  
Ilia Mitov (Bulgaria)  
Irina Petrova (Russia)  
Juan Castellanos (Spain)  
Julita Vassileva (Canada)  
Luis Fernando de Mingo (Spain)

Michail Povidaychik (Ukraine)  
Natalia Bilous (Ukraine)  
Natalia Frolova (Russia)  
Natalia Pankratova (Ukraine)  
Nikolay Malyar (Ukraine)  
Phedor Garashenko (Ukraine)  
Stefan Dodunekov (Bulgaria)  
Tatiana Gavrilova (Russia)  
Valeriy Grigoruk (Ukraine)  
Vasiliy Grirorkiv (Ukraine)  
Vitaliy Snituk (Ukraine)  
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.

### *Theses*

Theses need to be up to 2 A5 pages in the format given in the [sample theses sheet](#). Theses accepted by the Program Committee will be published in separate book. Theses may be written in Ukrainian, Russian or English language.

### *For contacts*

Questions about fees, sponsorships, accommodation and papers submit to:

Alexey Voloshin, Irina Goricina  
e-mail: <goritsyna@unicyb.kiev.ua>; <goritsyna@mail.ru>;

**ITA 2010**

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain



**INFOS 2010**

Third International Conference

**Intelligent Information and Engineering Systems**

September 20 - 24, 2010, Krinica (Poland)

<http://infos.prz.edu.pl>

*Conference organizers*

ITHEA International Scientific Society  
Rzeszow University of Technology (Poland)  
Institute of Information Theories and Applications FOI ITHEA (Bulgaria)  
Institute of Mathematics and Informatics, BAS (Bulgaria)  
V.M.Glushkov Institute of Cybernetics National Academy of Sciences of Ukraine  
Taras Shevchenko National University of Kiev (Ukraine)  
Ben-Gurion University (Israel)  
Hasselt University (Belgium)  
University of Calgary (Canada)  
Universidad Politecnica de Madrid (Spain)  
Association of Developers and Users of Intelligent Systems (Ukraine)

*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,  
DNA Computing,  
Genetic Algorithms and Evolutionary Computing,  
Expert Systems,  
Fuzzy Techniques and Systems,  
Hybrid Intelligent Systems,  
Intelligent Agents and Multi-Agent Systems,  
Intelligent Information Retrieval,  
Knowledge Acquisition.  
Knowledge-Based Systems,  
Knowledge Discovery and Data Mining,  
Knowledge Representation and Management,  
Natural Language Processing,  
Neural Networks,  
Neuro-fuzzy systems  
Machine Learning,  
Planning and Scheduling,  
Spatial and Temporal Reasoning,  
Soft Computing in Automatics

**Intelligent Applications:**

Bioinformatics using Intelligent and Machine Learning  
Techniques,  
Business Intelligence Systems,  
E-commerce/E-business and E-learning,  
Engine Control and Vehicle Applications;  
Fault Diagnosis,  
Financial and Stock Market Monitoring and Prediction,  
Image Processing,  
Industrial Control and Monitoring,  
Information Agents on the Internet,  
Intelligent Natural Language Systems,  
Intelligent Tutoring Systems,  
Intelligent User Interfaces,  
Intelligent Web Mining and Applications,  
Mechanical Applications  
Machine and Computer Vision,  
Medical and Diagnostic Systems,  
Mobile Computing and Systems,  
Multi-Media Intelligent Information Systems,  
Robotics,  
Speech Processing and Synthesis

## **ITA 2010**

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

### *Steering Committee*

Galina Setlak (Poland)  
Krassimir Markov (Bulgaria)

### *Program Committee*

Alexey Voloshyn (Ukraine)  
Adil Timofeev (Russia)  
Feliks Stachowicz (Poland)  
Martin Mintchev (Canada)  
Sergey Krivoy (Ukraine)  
Yuriy Zaichenko (Ukraine)  
Alfredo Milani (Italy)  
Arkady Zakrevskij (Belarus)

Ilia Mitov (Bulgaria)  
Juan Penuella Castellanos (Spain)  
Koen Vanhoof (Belgium)  
Levon Aslanyan (Armenia)  
Luis Fernando de Mingo Lopez (Spain)  
Olry Yadid-Pecht (Israel)  
Vladimir Lovitskii (GB)  
Vladimir Ryazanov (Russia)

### *Language*

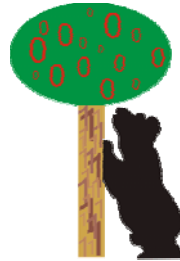
Official languages: English and Russian.

Preffered language: English.

## ITA 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain



## NIT 2010

International Conference

### **Natural Information Technologies**

September 28 - October 02, 2010, Madrid (Spain)

#### *Conference organizers*

- ITHEA International Scientific Society
- Universidad Politécnica de Madrid (Spain)
- Institute of Mathematics and Informatics, Bulgarian Academy of Sciences (Bulgaria)
- Institute of Information Theories and Applications FOI ITHEA (Bulgaria)
- Institute for Informatics and Automation Problems, Armenian Academy of Sciences (Armenia)
- Association of Developers and Users of Intelligent Systems (Ukraine)
- Dorodnicyn Computing Centre of the Russian Academy of Sciences (Russia)

#### *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 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

### *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*

Carmen Vidaurre, Berlin Institute of Technology, Germany  
Erzsebet Csuhaaj-Varju, Hungarian Academy of Sciences, Hungary  
Fernando Arroyo, Universidad Politécnica de Madrid, Spain  
Fivos Panetsos, Universidad Complutense, Spain  
Gheorghe Paun, Romanian Academy, Romania  
Giancarlo Mauri, Università di Milano-Bicocca, Italy  
Hasmik Sahakyan, Institute for Informatics and Automation Problems, Armenia  
Iliya Mitov, Institute on Information Theories and Applications, Bulgaria  
José María Sempere, Universidad Politécnica de Valencia, Spain  
Koen Vanhoof, Hasselt University, Belgium  
Kostas Chrysagis, Center for Technology Research and Innovation - CETRI, Greece  
Luis Fernando de Mingo, Universidad Politécnica de Madrid, Spain  
Marian Gheorghe, University of Sheffield, United Kingdom  
Mario Pérez Jiménez, Universidad de Sevilla, Spain  
Marion Oswald, Hungarian Academy of Sciences, Hungary  
Martyn Amos, Manchester Metropolitan University, United Kingdom  
Rudolf Freund, Technische Universität Wien, Austria  
Tasos Bezerianos, University of Patras, Greece  
Victor Mitrana, 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*

Paula Cordero, Universidad Politécnica de Madrid, Spain  
Sandra Gómez, Universidad Politécnica de Madrid, Spain,  
Angel Goñi, Universidad Politécnica de Madrid, Spain  
Valeria Mitova (Bulgaria)

### *Language*

The official language of the Conference is English.

### *Conference Location*

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

### *For contacts*

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

## ITA 2010

Joint International Scientific Events on Informatics

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## CML 2010

XIIth International Conference

### **Cognitive Modeling in Linguistics**

September 6 – 12, 2010, Dubrovnik (Croatia)

#### *Conference organizers*

- Institute of Linguistics, Russian Academy of Sciences (Russia) ([www.iling-ran.ru](http://www.iling-ran.ru))
- Kazan State University (Russia) ([www.kcn.ru](http://www.kcn.ru))
- New Bulgarian University (Bulgaria) ([www.nbu.bg](http://www.nbu.bg))
- The University of Zadar (Croatia) ([www.unizd.hr](http://www.unizd.hr))
- ITHEA International Scientific Society ([www.ithea.org](http://www.ithea.org))
- Institute for Information Theories and Applications FOI ITHEA ([www.ithea.org](http://www.ithea.org))
- Alexandru Ioan Cuza University (Romania) ([www.uaic.ro/uaic/bin/view/Main/WebHome](http://www.uaic.ro/uaic/bin/view/Main/WebHome))
- Sofia University St. Kliment Ohridsky (Bulgaria) ([www.uni-sofia.bg](http://www.uni-sofia.bg))
- Konstantin Preslavski University of Shumen (Bulgaria) ([www.shu-bg.net/EN](http://www.shu-bg.net/EN))
- Moscow State Linguistic University (Russia) ([www.linguanet.ru](http://www.linguanet.ru))
- National Research Technological University (MISIS) (Russia) ([www.misis.ru](http://www.misis.ru))
- Vrije Universiteit Brussel (Belgium) ([www.etro.vub.ac.be](http://www.etro.vub.ac.be))
- Web Journal of Balkan Rusistics ([www.russian.slavica.org/index.html](http://www.russian.slavica.org/index.html))
- Scientific and Educational Center of Linguistics (Russia)
- Russian Association of Linguists-Cognitologists (Russia)

#### *Aims and Scope*

Conferences of the series "Cognitive Modeling" have been held with success since 1998.

In 2000 the direction was specified as "Cognitive Modeling in Linguistics" (CML).

In 1998 and 2000 CML conferences were held as a part of the Russian National Conference on Artificial Intelligence (CAI), in 2001 as a part of the International Congress on Artificial Intelligence (ICAI-2001), which took place in Divnomorskoe (Russia). In 2002 the CML conference was held in Divnomorskoe, as a part of the IEEE International Conference "Artificial Intelligence Systems" (IEEE AIS'02). From 2003 to 2007 CML conferences took place in Bulgaria (Varna and Sofia). In 2008 the Conference was conducted in Bechichi, Montenegro. CML-2009 visited Constanza (Romania).

The new, XIIth Conference (CML-2010) is planned at the Adriatic Resort near Dubrovnik in Croatia.

The Program of CML-2010 includes a Tutorial in Lexical and Grammatical Statistics (organized by the Institute of Linguistics of the Russian Academy of Sciences), a Cognitive Science Workshop (organized by the Psychology Department of Lomonosov's Moscow State University), an Exhibition of Cognitively-Oriented Computer Applications and Linguistic Resources (organized by the National Research Technological University (MISIS)).

The aim of the conference is to integrate the work of specialists in cognitive science, cognitive psychology, learning theory, neural network theory, cognitive linguistics, knowledge engineering, semiotics, psycholinguistics, etc.

The results are expected to contribute to the investigation of cognitive processing of language information.

## ITA 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

### Topics of interest

#### General topics

- Cognitive Models of Language Phenomena
- Formal Models in Language and Cognition
- Cognitively-Oriented Computer Applications and Linguistic Resources
- General Problems of Cognitive Science

#### Models and Studies in

- Speech Perception and Production
- Psycholinguistics and Psychosemantics
- Semiotics, Semantics and Pragmatics
- Language Processing, Memory and Thought
- Child Speech and Language Acquisition
- Language Typology
- Speech Impairments
- Language Disorders
- Cognitive Aspects of Theology
- Cognitive Aspects of Information Technologies Development and Using
- Cognitive Mechanisms for Decision Making

#### Cognitive Linguistics

- Metaphor Theory
- Mental Lexicon and Lexicon Ontology
- Naive World Image and Verbal Form
- Knowledge Conceptualisation and Verbalisation
- Cognitive Mechanisms for Text Processing
- Cognitive Models in Language Learning
- Species-Specificity of Human Language
- Thinking through Language Processing
- Cognitive Slavistics

### Conference Chair

Valery Solovyev, Professor,  
Kazan State University (Russia)  
E-mail: [cml2010@list.ru](mailto:cml2010@list.ru)

### Program Committee

Please visit <http://www.cml.msisa.ru> for a complete list of Program Committee members.

### Organizing Committee

Vladimir Polyakov (Chair), Ph.D., Institute of Linguistics, RAS, Russia, [cml2010@inbox.ru](mailto:cml2010@inbox.ru)  
Velina Slavova, Professor, New Bulgarian University, Bulgaria  
Rafaela Šejić, Ph.D, the University of Zadar, Croatia  
Krassimir Markov, Ph.D, Institute of Mathematics and Informatics, BAS, Bulgaria  
Ioan Milica, Ph.D, Alexandru Ioan Cuza University, Romania  
Jovan Ajdukovich, Ph.D, D.Sc., University of Belgrade, Serbia  
Krassimira Petrova, Ph. D, Sofia St.Kliment Ohridsky University, Bulgaria  
Dimitar Popov, Ph. D, Konstantin Preslavsky University of Shumen, Bulgaria  
Irina Blinnikova, Ph. D, Moscow State University, Russia  
Andrea Schalley, Ph.D, University of New England, Armidale, Australia  
Evgeny Kalashnikov, professor, National Research Technological University (MISIS), Russia  
Evgeny Zhevnerov, Moscow State Steel and Alloys Institute, Russia  
Olga Nevzorova, PhD, Kazan State University, Russia

### Language

The official languages of the Conference are English and Russian.

## ITA 2010

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### Conference Location

The XIIth International Conference “Cognitive Modeling in Linguistics” (CML– 2010) will be held near Dubrovnik, Croatia.

Dubrovnik is a Croatian city on the Adriatic Sea coast in the extreme south of Dalmatia, positioned at the terminal end of the Isthmus of Dubrovnik.

It is one of the most prominent tourist destinations on the Adriatic, a seaport and the center of Dubrovnik-Neretva county.

In 1979, the city of Dubrovnik joined the UNESCO list of World Heritage Sites. (

<http://en.wikipedia.org/wiki/Dubrovnik> )

The Hotel Astarea was chosen for the Conference siting.

See link: <http://www.booking.com/hotel/hr/astarea.en.html?aid=311076;label=astarea-LqIC8wMunLzE84IiVRYPVgS4472618730;sid=f273aead4d0763f46f2f643544f13ab8>

The Hotel Astarea is situated only in the 15 minutes of bus drive from Dubrovnik.

There are some different possibilities of accommodation according to different levels of price and comfort near Dubrovnik.

See link: <http://www.booking.com/city/hr/mlini.en.html?aid=311076;label=astarea-LqIC8wMunLzE84IiVRYPVgS4472618730;sid=f273aead4d0763f46f2f643544f13ab8>

### Important Dates

- Early submission deadline: April 2, 2010 \*
- Early notification of acceptance: May 16, 2010 \*
- Late submission deadline: June 2, 2010
- Late notification of acceptance: June 16, 2010
- Deadline for final report: June 30, 2010
- Conference: September 6 – 12, 2010

A submission should include full preliminary text of the extended abstract (2 pages).

\* These dates are provided for participants who are going to seek travel grants.

### Papers

An extended abstract (2 page) of the report needs to be submitted for the Program Committee.

A report accepted for presentation at CML-2010 cannot be published elsewhere or presented at another meeting with publicly available published proceedings.

For reports that are being submitted to other conferences, this must be indicated on the title page.

Notification of receipt and acceptance of reports will be sent to the first author.

All submissions will be subject to academic peer review by at least two members of the Program Committee.

Selection criteria include relevance and originality of ideas, clarity and significance of results, and quality of presentation. For every accepted report, at least one author is required to attend the conference to present the report.

Extended abstract can be submitted in English up to June 2, 2010 according to submission form.

Abstract and applications, including title of paper, authors' names, place of work, should be sent to the both of the following addresses:

- [cml2010@list.ru](mailto:cml2010@list.ru) (Prof. Valery Solovyev)
- [cml2010@inbox.ru](mailto:cml2010@inbox.ru) (Dr. Vladimir Polyakov)

Contact phone: +7 (8432) 616914 Prof. Valery Solovyev.

The proceedings with extended abstract will be published.

Further the best reports will be recommended to publishing in the form of journal paper in the publishing system of ITHEA ISS ([www.ithea.org](http://www.ithea.org)).

Please see <http://www.cml.msisa.ru> for a complete set of submission details.- Sandra Gómez, e-mail: [nit@eui.upm.es](mailto:nit@eui.upm.es)

## ITA 2010

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## ISK'2010

Third International Conference

### Informatics in the Scientific Knowledge

June 24 – 26 , 2010, Varna, Bulgaria

<http://www.vfu.bg/en/index.php>

#### *Conference organizers*

Varna Free University “Chernorizets Hrabar”  
The Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences

#### *Steering Committee*

Anna Nedyalkova  
Stefan Dodunekov

#### *Aims and Scope*

From 24 to 26 June 2010 the Third International Conference "Informatics in Scientific Knowledge" - ISK'2010, organized by Varna Free University “Chernorizets Hrabar” and the Institute of Mathematics and Informatics of the Bulgarian Academy of Science will be carried out in Varna. The achievements in application of informatics and information technologies in scientific knowledge will be discussed in the presented papers. Special attention will be paid to the information support in teaching and research work.

#### *Topics of interest*

Informatics in the Economics, Management and Culture  
Informatics in the Public Administration, Law and Corporative Security  
Informatics in Engineering and Technologies  
Informatics in Education  
Mathematical Basics of Informatics

On the plenary sessions there will be carried out and discussed common theoretical problems of informatics in the scientific knowledge /epistemological, philosophical and practical aspects/.

#### *Conference Location*

The Conference will take place from June 24 – 26 , 2010 at Varna Free University.

#### *Language*

**Official languages** – Bulgarian and English.

**Languages of publication:** English

**ITA 2010**  
Joint International Scientific Events on Informatics  
June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain



**ISSI 2010**

Third International Summer School on Informatics

June 28 - July 02, 2010, Varna (Bulgaria)

*The Summer School is organized by:*

ITHEA International Scientific Society  
Institute of Information Theories and Applications FOI ITHEA (Bulgaria)  
V.M.Glushkov Institute of Cybernetics National Academy of Sciences of Ukraine  
Taras Shevchenko National University of Kiev (Ukraine)  
University of Hasselt (Belgium)  
Universidad Politecnica de Madrid (Spain)  
Kharkiv National University of Radioelectronics, (Ukraine)  
Institute of Mathematics and Informatics, BAS (Bulgaria)  
Association of Developers and Users of Intelligent Systems (Ukraine)

*Aims and Scope*

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

*Program Committee*

Juan Castellanos (Spain)	Alexander Kuzemin (Ukraine)	Iliia Mitov (Bulgaria)
Levon Aslanyan (Armenia)	Alexey Voloshin (Ukraine)	Ludmila Liadova (Russia)
Koen Vanhoof (Belgium)	Avram Eskenazi (Bulgaria)	Luis Fernando de Mingo (Spain)
Krassimir Markov (Bulgaria)	Evgeny Eremin (Russia)	Nely Maneva (Bulgaria)

*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 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

*Language*

Official languages: English and Russian. Preferred language: English.

**Ukrainian school – seminar “Decision Making”**

September 29 - October 05, 2008, Uzhgorod (Ukraine)

**DM Program committee cochairmen:**

Alexey Voloshyn (Kiev), Mykola Malyar (Uzhgorod)

**Secretaries**

Iryna Goritsyna (Kiev), Myhajlo Povidajchuk (Uzhgorod)

**Official language:** Ukrainian. Abstracts of the lectures will be published.

**Deadline:** September 01, 2010 – acceptance of papers and forms from participants.

## ITA 2010

Joint International Scientific Events on Informatics

June 20 - July 02, 2010, Varna (Bulgaria); September-October 2010, Ukraine, Poland, Spain

### **Important information for participants in ITA 2010, Varna, Bulgaria**

**Please read carefully!**

#### **1. Contacts**

Mobile numbers of the members of the committee:

+359 878 89 07 07, +359 878 89 07 08, +359 878 89 07 25

Panorama hotel: (+359 52) 36 28 98 [www.panoramahotel.bg](http://www.panoramahotel.bg)

#### **2. Travel to the conference**

##### **1.1. From Varna**

The PANORAMA HOTEL is located less than 10 km by the way from Varna to the Golden Sands resort. Please, see the map [http://www.panoramahotel.bg/get\\_eng.html](http://www.panoramahotel.bg/get_eng.html).

The busses from Varna to Golden Sands (Zlatni pyasatsi): 9, 109, 209, 309, 409.

The name of the bus stop is "PANORAMA".

##### **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](http://www.bdz.bg)

- by bus from the Central Bus Station (right beside the Central Railway Station: [www.centralnaavtogara.bg](http://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.**

**ITA 2010**

Joint International Scientific Events on Informatics

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ITA 2010

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The picture is 1120m x 800m.