

# ***ITHEA International Scientific Society***



## ***ITA 2016***

### ***XIX-th Joint International Scientific Events on Informatics***

***[www.ithea.org](http://www.ithea.org)***

#### ***Sessions in Bulgaria***

*Hotel " SAINT HELENA"*

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

***Summer Session: July 04 - July 15, 2016***

***Autumn Session: September 05 – September 11***

***Autumn Sessions in Spain and Ukraine: October - November, 2016***

***Winter Session - Internet Tele-Conferences: December, 2016,***

**Papers from ITA 2016 will be published 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 Analyses" (IJ IMA)**

The ITHEA International Journal

**"Information Content and Processing" (IJ ICP)**

The ITHEA International Book Series

**"Information Science and Computing" (IBS ISC)**

The ITHEA International Digital Library with  
**Referative Scientific Index (RSI)**

**The ITHEA International Journals are indexed by Worldcat, ROAD Directory of Open Access scholarly Resources, Google Scholar, CiteseerX and ITHEA RSI.**

*ITA 2016 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
- Community of Students and Postgraduates of Cybernetics Faculty of Taras Shevchenko National University of Kyiv (Ukraine)
  
- 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)
- Research Institute of Applied Semiotics of Tatarstan Academy of Sciences (Russia)
- 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, NAS (Armenia)
- Institute of Mathematics of SD RAN (Russia)
- Institute of Mathematical Problems and Systems of NASU (Ukraine)
  
- Taras Shevchenko National University of Kyiv (Ukraine)
- National Aviation University, Kyiv (Ukraine)
- Universidad Politecnica de Madrid (Spain)
- New Bulgarian University, Sofia (Bulgaria)
- Ain Shams University, Cairo (Egypt)
- 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)
- School of Information Technologies and Cybersecurity of V.S. Martinovsky Institute of Refrigeration Cryotechnologies and Ecoenergetics at Odessa National Academy of Food Technologies, (Ukraine).
- Taras Shevchenko National University of Luhansk (Ukraine)
- Varna Free University “Chernorizets Hrabar” (Bulgaria)

<u><b>ITA 2016 Summer Session</b></u>			page
<b>KDS 2016</b>		XXII-th International Conference <b>Knowledge - Dialogue - Solution</b>	<b>8</b>
<b>CFDM 2016</b>		VIII-th International Conference <b>Classification, Forecasting, Data Mining</b>	<b>9</b>
<b>MeL 2016</b>		XI-th International Conference <b>Modern (e-) Learning</b>	<b>10</b>
<b>AIM 2016</b>		VI-th International Conference <b>Advances in Informational Modeling</b>	<b>12</b>
<b>TFIM 2016</b>		VI-th International Conference <b>Theoretical Foundations of Informational Modeling</b>	<b>13</b>
<b>i.TECH 2016</b>		XIV-th International Conference <b>Information Technologies and Software Engineering</b>	<b>14</b>
<b>GIT 2016</b>		XIV-th International Conference <b>General Information Theory</b>	<b>15</b>
<b>ISSI 2016</b>		X-th International Summer School on <b>Informatics</b>	<b>17</b>
<u><b>ITA 2016 Autumn Session</b></u>			
<b>CSAI 2016</b>		International Conference <b>Cognitive Science - Approaches and Results towards Artificial Intelligence</b>	<b>19</b>
<b>i-i-i 2016</b>		VII-th International Conference <b>Information - Interaction – Intellect</b>	<b>21</b>
<b>KEBIDH 2016</b>		Second International Conference <b>Knowledge Engineering in BioMedical Informatics and Digital Health</b>	<b>22</b>
<b>INFOS 2016</b>		IX-th International Conference on <b>Intelligent Information and Engineering Systems</b>	<b>24</b>
<b>CML-2016</b>		XVII-th International scientific Conference <b>Cognitive Modeling in Linguistics</b>	<b>25, 28</b>
<b>CMSCE-2016</b>		IV-th International scientific Conference <b>Cognitive Modeling in Science, Culture, Education</b>	<b>25, 29</b>
<b>NIT 2016</b>	 <small>NIT 2016 Valencia – Spain, 18th – 22th October 2016 10011001010001001001001 ACCGTGAGAGCTTAGCAGA</small>	VII-th International Conference <b>Natural Information Technologies</b>	<b>30</b>
<b>IT&amp;I 2016</b>		III International Scientific Conference on <b>Information technologies and interactions</b>	<b>32</b>
<b>TAAC 2016</b>		VI-th International Scientific Conference of Students and Young Scientists <b>Theoretical and Applied Aspects of Cybernetics</b>	<b>34</b>
<u><b>ITA 2016 Winter Session</b></u>			
<b>IM 2016</b>		VI-th International (Tele-) Conference <b>Informational Modeling</b>	<b>35</b>
<b>MIM 2016</b>		VI-th International (Tele-) Conference <b>Mathematics of Informational Modeling</b>	<b>37</b>

***Preliminary Time Tables for ITA 2016 Plenary Sessions in Bulgaria***

(Conference room of the hotel “St. Helena”)

Working languages are pointed in the information for corresponded conferences (see next pages).

**ITA 2016 Summer Session**

	10:00–12:00	12:00–14:00	14:00–16:00	16:00–17:00	17:00–19:00	
01.07.16 - 03.07.16	arrivals					
04.07.16 Monday	<b>KDS</b>	<i>Break</i>	<b>KDS</b>	<i>Break</i>	<b>KDS</b>	
05.07.16 Tuesday	<b>CFDM</b>	<i>Break</i>	<b>CFDM</b>	<i>Break</i>	<b>CFDM</b>	
06.07.16 Wednesday	<b>MeL</b>	<i>Break</i>	<b>MeL</b>	<i>Break</i>	<b>MeL</b>	
07.07.16 Thursday	<b>GIT</b>	<i>Break</i>	<b>GIT</b>	<b>ITHEA EVENING</b>		
08.07.16 Friday	<b>AIM</b>	<i>Break</i>	<b>AIM</b>	<i>Break</i>	<b>AIM</b>	
09.07.16 Saturday	<b>TFIM</b>	<i>Break</i>	<b>TFIM</b>	<i>Break</i>	<b>TFIM</b>	
10.07.16 Sunday	<b>ISSI</b>	<i>Break</i>	<b>ISSI</b>	<i>Break</i>	<b>ISSI</b>	
11.07.16 Monday	<b>i.TECH</b>	<i>Break</i>	<b>i.TECH</b>	<i>Break</i>	<b>i.TECH</b>	
12.07.16 Tuesday	<b>i.TECH</b>	<i>Break</i>	<b>i.TECH</b>	<b>ITHEA EVENING</b>		
13.07.16 Wednesday	<b>i.TECH</b>	<i>Break</i>	<b>i.TECH</b>	<i>Break</i>	<b>i.TECH</b>	
14.07.16 Thursday	<b>ITHEA SIG</b>	<i>Break</i>	<b>ITHEA SIG</b>	<i>Break</i>	<b>ITHEA SIG</b>	
15.07.16 - 17.07.16	departures					

**ITA 2016 Autumn Session**

	10:00–12:00	12:00–14:00	14:00–16:00	16:00–17:00	17:00–19:00	
01.09.16 - 04.09.16	arrivals					
05.09.16 Monday	<b>KEBIDH</b>	<i>Break</i>	<b>KEBIDH</b>	<i>Break</i>	<b>KEBIDH</b>	
06.09.16 Tuesday	<b>CSAI</b>	<i>Break</i>	<b>CSAI</b>	<i>Break</i>	<b>CSAI</b>	
07.09.16 Thursday	<b>CSAI</b>	<i>Break</i>	<b>CSAI</b>	<b>ITHEA EVENING</b>		
08.09.16 Wednesday	<b>CSAI</b>	<i>Break</i>	<b>CSAI</b>	<i>Break</i>	<b>CSAI</b>	
09.09.16 Friday	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	
10.09.16 Saturday	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	
11.09.16 Sunday	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	<i>Break</i>	<b>i-i-i</b>	
12.09.16 Monday	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	
13.09.16 Tuesday	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	
14.09.16 Wednesday	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	<i>Break</i>	<b>INFOS</b>	
15.09.16 - 16.09.16	departures					

## VISAS for ITA 2016

To receive **Bulgarian visa** for ITA 2016 Summer or Autumn Session one has to have:

- Invitation letter;
- Voucher for hotel accommodation;

as well as many other documents that exist in obligatory list of Bulgarian Embassy in your country. **Voucher** may be obtained from HIT-Tourism Tour Operator. Send your requests for hotel reservation to both e-mails: [office@hit-tourism.com](mailto:office@hit-tourism.com) and [office@ithea.org](mailto:office@ithea.org).

**Invitation letter** may be received from the ITHEA Institute of Information Theories and Applications. In order to obtain invitation letter, fill visa and registration forms and send them to [office@ithea.org](mailto:office@ithea.org).

International passports must be **valid** at least six months after the conference time.

To receive **Schengen visa** for ITA 2016 Autumn Session in **Spain** one has to have:

- Invitation letter;
- Hotel reservation;

as well as many other documents that exist in obligatory list of Spain Embassy in your country.

**Invitation letter** may be received from the Politechnika de Madrid. Please fill visa form and send it to [office@ithea.org](mailto:office@ithea.org).

**Hotel reservation** has to be done by Booking.com.

International passports must be **valid** at least six months after the conference time.

## Accommodation for ITA 2016 Sessions in Bulgaria



### HIT-Tourism Tour Operator, Varna, Bulgaria

License number: 04482

[www.hit-tourism.com](http://www.hit-tourism.com) ; e-mail: [office@hit-tourism.com](mailto:office@hit-tourism.com) ;  
+359 52 361 900; +359 888 794 159 Skype: hit\_mira

## ITA 2016 SPECIAL HOTELS' PRICES (EURO)

Prices for Hotel Complex "SAINT HELENA \*\*\*\*", **All inclusive**  
Resort "St. Constantine & St. Helena", Varna, Bulgaria, **400m far from sea**

<http://www.svetaelena.com/hotel.aspx?lang=en>

Summer session:	<b>10.06 - 15.07.2016</b>	Autumn session:	<b>01.09 - 20.09.2016</b>
Person in a double room	EURO 30	Person in a double room	EURO 30
Single room	EURO 33	Single room	EURO 33
<b>Booking till April 30, 2016 !</b>		<b>Booking till July 31, 2016 !</b>	

**Send your requests for booking to both e-mails:**

[office@hit-tourism.com](mailto:office@hit-tourism.com) and [office@ithea.org](mailto:office@ithea.org).

If you not receive answer in a couple of days, please resend request!

**Transfer airport - hotel in one direction per car:**

car (1-4 sits): EURO 24; minivan (4-7 sits): EURO 29.

## *Manuscripts*

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.

Not acceptable manuscripts will be returned to authors with recommendations. After authors' editing and refinement, if the manuscripts are reviewed positively they will be published.

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

- DOC template: [http://www.ithea.org/conferences/ithea\\_doc\\_template.doc](http://www.ithea.org/conferences/ithea_doc_template.doc)

- TeX template: [http://www.ithea.org/conferences/ithea\\_tex\\_template.tex](http://www.ithea.org/conferences/ithea_tex_template.tex)

Accepted manuscripts will be published by ITHEA® as follow:

- **Regular papers or surveys in English or Russian** up to 30 pages will be published in the International Journal "Information Theories and Applications" (IJ ITA); International Journal "Information Technologies and Knowledge" (IJ ITK); International Journal "Information Models and Analyses" (IJ IMA); International Journal "Information Content and Processing" (IJ ICP).

- **Books** (monographs 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** of all works are freely available online at the ITHEA ISS International Digital Library and Indexing System:

<http://idr.ithea.org> .

## *Submission*

The camera-ready copy of the manuscript should be received by the ITHEA Conference Submission System (<http://ita.ithea.org>) or by the ITHEA Journal Submission System (<http://ij.ithea.org>); e-mail for questions: [office@ithea.org](mailto:office@ithea.org). **Please observe the rules and deadlines!** Submit registration cards and visa forms to e-mail: [office@ithea.org](mailto:office@ithea.org) .

## *Deadlines for ITA 2016*

### **For KDS, CFDM, MeL, AIM, TFIM, i.TECH, and GIT:**

April 30, 2016: **reservation of hotel**, submission of **registration forms** and **visa application forms** by e-mail: [office@ithea.org](mailto:office@ithea.org) and [office@hit-tourism.com](mailto:office@hit-tourism.com)

April 30, 2016: submission of **paper** by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>

May 15, 2016: notification of the **paper acceptance** by the **ITHEA ISS Submission Web System**

### **For CSAI, i-i-i, KEBIDH, INFOS:**

June 15, 2016: **reservation of hotel**, submission of **registration forms** and **visa application forms** by e-mail: [office@ithea.org](mailto:office@ithea.org) and [office@hit-tourism.com](mailto:office@hit-tourism.com)

July 15, 2016: submission of **paper** by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>

July 31, 2016: notification of the **paper acceptance** by the **ITHEA ISS Submission Web System**

### **For NIT:**

July 15, 2016: submission of **registration forms** and **visa application forms** by e-mail: [office@ithea.org](mailto:office@ithea.org)

July 15, 2016: submission of **abstract** by e-mail: [office@ithea.org](mailto:office@ithea.org)

August 26, 2016: notification of the **paper acceptance** by the **ITHEA ISS Submission Web System**

December 10, 2016: submission of **paper** by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>

### **For IT&I, TAAC, CML and CMSCE:**

See websites: <http://iti.fit.knu.ua/> , <http://www.taac.org.ua/en/> , <http://www.confognresearch.ru>

### **For IM and MIM:**

November 30, 2016: submission of **abstract** by e-mail: [office@ithea.org](mailto:office@ithea.org)

December 31, 2016: notification of the **abstract acceptance** by the **ITHEA ISS Submission Web System**

March 31, 2017: submission of **paper** according the abstract by the **ITHEA ISS Submission Web System**: <http://ita.ithea.org>



*Fees (including 20% VAT)*

**Registration Fee** is **EURO 240** (fee 200 + VAT 40).

Registration fee includes both *publication fee* and *participation fee* per one paper.

**Publication Fee** is **EURO 120** per paper (fee 100 + VAT 20).

Publication fee includes *only one exemplar* of the issue in which the paper has been *published*.

**Participation Fee** is **EURO 120** per paper (fee 100 + VAT 20).

Participation fee includes *participation* for one person and permits *presentation of one paper* without publishing and *access* to conference events including summer school and one ITHEA Evening.

**Sponsorship of 50%** is applicable *only for the paper* which meets *all of* following requirements:

- authors are from *Middle Income Countries* (<http://data.worldbank.org/income-level/MIC>);
- authors are *members of ITHEA ISS*. Membership is free (do it via [www.ithea.org](http://www.ithea.org));
- paper is *not financed by any other scientific project or other source*;
- paper contains the *acknowledgement*:

*"The paper is published with partial support by the ITHEA ISS ([www.ithea.org](http://www.ithea.org)) and the ADUIS ([www.aduis.com.ua](http://www.aduis.com.ua))"*

**Requests for sponsorship** have to be sent to e-mail: [office@ithea.org](mailto:office@ithea.org).

**Accompanying Persons' Fee** is **EURO 30** (fee 25 + VAT 5)

Accompanying persons' fee covers the organizing expenses and one ITHEA Evening. It does not cover excursions and other social events.

**Additional exemplars**

One additional journal number costs **EURO 12** (10 + VAT 2).

One additional book costs **EURO 24** (20 + VAT 4).

**Post expenses:**

Please, note that the *fees do not include post expenses*.

Post expenses depend of destination but are not less than **EUR 24** (20 + VAT 4).

**Contact for ITA 2016:** [office@ithea.org](mailto:office@ithea.org)



HIT-Tourism Tour Operator

*ITA 2016 is supported by:*



Srtukto Ltd.



LUXIT optical boutiques