

ITHEA International Scientific Society



ITA 2021

XXIV-th Joint International Scientific Events on Informatics

www.ithea.org

Summer Session: July 01 - July 10, 2021

*Hotel "KORAL" in the resort "St. Constantine & St. Helena", Varna, Bulgaria
with Internet on-line sessions*

Papers from ITA 2021 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)

A Collection of best papers, written in English and presented at ITA 2021, will be sent for publishing at CEUR-WS.org, which is planned to be indexed in Scopus.

The ITHEA International Journals are indexed by DOI, Crossref, Worldcat, ROAD Directory of Open Access scholarly Resources, Google Scholar, CiteseerX, ITHEA, and are planned to be indexed in WoS.

ITA 2021 is organized by:

ITHEA International Scientific Society (ITHEA ISS)

Association of Developers and Users of Intelligent Systems (ADUIS)

Institute of Information Theories and Applications FOI ITHEA (Bulgaria)

University of Telecommunications and Post, Sofia (Bulgaria)

in tight collaboration with:

- Spanish Network on Biomolecular and Biocellular Computing (Spain)
- National Academy of Sciences of Ukraine
- FIS Foundations of Information Science (Spain)

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

- Universidad Politecnica de Madrid (Spain)
- Hasselt University (Belgium)
- University of Calgary (Canada)
- National Aviation University, Kyiv (Ukraine)
- Taras Shevchenko National University of Kyiv (Ukraine)
- 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)
- Ben-Gurion University (Israel)
- Astrakhan State University (Russia)

ITA 2021 Conferences

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Deadlines for ITA 2021

For all summer session conferences:

June 30, 2021: reservation of hotel, submission of registration forms and visa application forms by e-mail: office@ithea.org and office@hit-tourism.com

June 20, 2021: submission of proposals for ISSI **doctoral consortium** by e-mail: office@ithea.org

June 10, 2021: submission of **paper** by the ITHEA ISS Submission Web System: <http://ita.ithea.org> submission of proposals for ISSI **workshops** by e-mail: office@ithea.org

June 20, 2021: notification of the **paper acceptance** by the [ITHEA ISS Submission Web System](http://ita.ithea.org) notification of the workshop **acceptance** to authors e-mail

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

- TeX template: http://www.ithea.org/conferences/ithea_tex_template.tex

Accepted manuscripts will be published by ITHEA® in the peer reviewed ITHEA International Journals:

- "Information Theories and Applications" (IJ ITA);
- "Information Technologies and Knowledge" (IJ ITK);
- "Information Models and Analyses" (IJ IMA);
- "Information Content and Processing" (IJ ICP).

A Collection of best papers, written in English and presented at ITA 2021, will be sent for publishing at CEUR-WS.org, which is planned to be indexed in Scopus.

The ITHEA International Journals are indexed by DOI, Crossref, Worldcat, ROAD Directory of Open Access scholarly Resources, Google Scholar, CiteseerX, ITHEA, and are planned to be indexed in WoS.

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.

Please observe the rules and deadlines!

Submit registration cards and visa forms to e-mail: office@ithea.org.

Fees (including 20% VAT)

Registration Fee is **EURO 180**.

Registration fee includes *participation fee* with presentation of one **free online only published paper** and *access* to all conference events.

Printed journal issue

One printed exemplar of a journal issue costs **EURO 90**.

Registration Fee for a PhD student is **EURO 90**.

Registration fee for **Internation Summer School on Informatics** includes *participation* for one PhD student and permits *presentation of one PhD* in **Doctoral Consortium** with *afterward online only publishing* and *access* to all conference events and ITHEA Evening.

Contact for ITA 2021: office@ithea.org

ITA 2021

Joint International Scientific Events on Informatics

Accommodation for ITA 2021 Summer Session**HIT-Tourism Tur Operator, Varna, Bulgaria****Licence number: 04482**

www.hit-tourism.com ; e-mail: office@hit-tourism.com ;
 +359 52 361 900; +359 89945185 Skype: [hit_mira](https://www.skype.com/user/hit_mira)

ITA 2021 HOTELS WITH SPECIAL DISCOUNTS

Resort "St. Constantine & St. Helena", Varna, Bulgaria

MAIN HOTELSHotel "KORAL ****" , *ITA 2021 Conference place, 400m far from sea*<https://hotel-koral.com/>Hotel "Gloria ***" , *300m far from sea; 100m far from ITA 2021 Conference place*<http://gloria.golden-hotelbg.com/>Hotel "Rusalka **" , *300m far from sea; 100m far from ITA 2021 Conference place*<http://www.hotelroussalka.com/>

To use special hotels' prices with discounts from the official prices for all hotels, participants have to make reservation and payment *only* by HIT-Tourism Tour Operator.

It is possible to book in every hotel in the resort as well as in Varna town using special discounts for ITA 2021 if one book via "HIT Tourism" Tour Operator.

Before using any booking system, please ask ITA 2021 for actual prices.

As a rule, Booking.com, as well as other booking systems, offers prices higher more than at least 15% than ours.

Transfer airport - hotel:

- car (1-4 sits): EURO 24 per car *in one direction*;
- minivan (4-7 sits): EURO 30 per bus *in one direction*.

Send your requests for reservation and questions to both e-mails: office@hit-tourism.com and office@ithea.org .

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

NOTE: After pointed hotels' deadlines prices for booking will rise !

VISAS for ITA 2021

To receive **Bulgarian visa** for ITA 2021 Summer Session one has to have:

- **Voucher** from HIT-Tourism Tur Operator for hotel accommodation. Send your requests for hotel reservation to both e-mails: office@hit-tourism.com and office@ithea.org .
- **Invitation letter** from ITHEA. In order to obtain invitation letter, fill visa and registration forms and send them to office@ithea.org.
- **Other documents** that Bulgarian embassy in your contry requires.

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

**Please pay attention to rules for entering Bulgaria.
 Possibly a valid COVID-19 vaccination certificate or
 a valid 72 hours old negative COVID-19 PCR test will be needed!**



KDS 2021

XXVII-th International Conference

Knowledge - Dialogue - Solution

July 01 – July 10, 2021, 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
- 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
- Modern (e-) Learning and intelligent systems
- Philosophy and Methodology of Informatics
- Problems of Computer Intellectualization

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Language

The official languages of the conference are Russian and English.



CFDM 2021

XIII-th International Conference

Classification, Forecasting, Data Mining

July 01 – July 10, 2021, 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 Modeling
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.



i.TECH 2021

XIX-th International Conference

Information Technologies and Software Engineering

July 01 – July 10, 2021, Varna (Bulgaria)

Supported by ITHEA Software Engineering Forum http://idr.ithea.org/tiki-view_forum.php?forumId=1

Aims and Scope

The conference is aimed is to represent research results and development activities in fields of Information Technologies and Software Engineering.

Topics of interest

Information Technologies

- Information Systems
- Mobile and Multimedia Systems
- Distributed and Telecommunication Systems
- Cyber Security

Software Engineering

- Fundamentals of Software Engineering
 - Software Engineering Standards Discussions and Reviews
 - Theoretical Aspects of Software Engineering
 - Domain Analysis and Engineering
 - Software Modeling Standards (UML, BPMN and Others)
 - Patterns in Software Engineering
- Software Life Cycle Management
 - Software Development Life Cycles Processes
 - Tools, Techniques, Algorithms and Methods for Management Software Development Life Cycle
 - AGILE and Model-Driven Development (MDD)
 - Software Product Lines
 - Reverse Software Engineering
 - Software and System Interoperability
- Software Applications and Development
 - Service-oriented Software Engineering
 - Distributed Application Development
 - Mobile Development
 - Software Technologies

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Vladimir Talalaev (Ukraine)
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Language

The official languages of the conference are English and Russian.



MeL 2021

XVI-th International Conference

Modern (e-) Learning

July 01 – July 10, 2021, 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, Methodologies and 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 Organizational 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
- Standardization 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 (Learning Objects, Designs, Modeling 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

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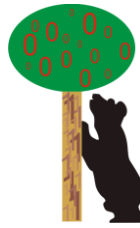
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Vitaliy Litvinov (Ukraine)
Vladimir Bugrov (Ukraine)
Yury Zaychenko (Ukraine)

Language

The official languages of the conference are Russian and English.



NIT 2021

XIII -th International Conference

Natural Information Technologies

July 01 – July 10, 2021, Varna (Bulgaria)

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 International Conference 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

Steering Committee

Krassimir Markov, University of Telecommunications and Post & 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

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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

Language

The official language of the conference is English.

For contacts

- Juan Castellanos, e-mail: jcastellanos@fi.upm.es

- Krassimir Markov, e-mail: office@ithea.org

**IM 2021**

XI-th International Conference

Informational Modeling

July 01 – July 10, 2021, Varna (Bulgaria)

The conference is supported by ITHEA Software Engineering Forum
http://idr.ithea.org/tiki-view_forum.php?forumId

Aims and Scope

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

The aim of the Conference is exchange the ideas and expertise among researches in industry, science and education and not formal coordination of their efforts.

Topics of the conference

1. AGILE and Model-Driven Development
 - Processing and Analysis of Software Models
 - Modeling Languages and Tools
 - Software Model Checking and Verification
 - Model-Driven Engineering
 - Model Execution and Simulation
 - Metamodels and Metamodeling
2. Informational Modeling 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 Base IM&S
3. 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
4. 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
 - Verification and Validation in IM&S Life Cycle.
5. 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

Krassimir Markov (Bulgaria)

Olena Chebanyuk (Ukraine)

Program Committee

Alexander Palagin (Ukraine)

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Gurgen Khachatryan (Armenia)

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Vladimir Romanov (Ukraine)

Vladimir Shelestov (Ukraine)

Yurii Zaichenko (Ukraine)

Language

The official languages of the conference are English and Russian.



MIM 2021

XI-th International Conference

Mathematics of Informational Modeling

July 01 – July 10, 2021, Varna (Bulgaria)

Aims and Scope

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 structures, i.e. the mathematical foundation of information science (informatics). It includes Mathematical Logic (for Computer Science), Empirical Engineering, Theory of Algorithms, Information Theory, Coding Theory, Cryptology, Mathematical foundation of network processes and so on.

Topics of interest

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

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 Stoyan Poryazov (Bulgaria)
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Jordan Tabov (Bulgaria)	Vitalii Velychko (Ukraine)
Koen Vanhoof (Belgium)	Yevgeniy Bodyanskiy (Ukraine)
Leonid Hulyanitskiy (Ukraine)	

Language

The official languages of the conference are English and Russian.



i-i-i 2021

XII-th International Conference

Information - Interaction - Intellect

July 01 – July 10, 2021, Varna (Bulgaria)

Aims and Scope

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

Topics of interest

- Artificial Engineering
- Decision Making
- NL Text Processing

- Intelligent Technologies in Control and Design
- Multi-agent Structures and Systems
- Neural Networks

Steering Committee

Krassimir Markov (Bulgaria)
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Yevgeniy Bodyanskiy (Ukraine)
Yury Zaychenko (Ukraine)

Language

The official languages of the conference are Russian and English.



KEBIDH 2021

VIII-th International Conference

Knowledge Engineering in BioMedical Informatics and Digital Health

July 01 – July 10, 2021, Varna (Bulgaria)

Organized by:

Prof. Dr. Abdel-Badeeh M. Salem

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<http://www.shams.edu.eg/staff/profile.php?action=show&pid=8256>



Aims and Scope

KEBIDH 2021 will bring researchers, practitioners, developers, and users to present their latest ideas and research in all areas of neuroinformatics, bioinformatics, medical informatics, bioengineering, machine learning and artificial intelligence in all areas of digital health and life sciences.

KEBIDH 2021 will provide a forum for the exchange of ideas between knowledge engineers, biologists, physicians and computer scientists. Papers related to methodologies, techniques and applications in bioinformatics, medical informatics, telemedicine, and Health care are especially solicited.

Topics of interest

The topics of interest include, but are not limited to:

- Health Care Information Systems
- Clinical Information Systems
- Medical Image Processing and Techniques
- Medical Intelligent Systems for different medical tasks
- Medical Expert Systems
- Applications in Medical and Health Sciences
- Bioinformatics and Biostatistics
- Telemedicine Software, Portals, Devices and Telehealth
- Web-based and Remote Medicine
- Data Mining and Knowledge Discovery in Medicine
- Machine Learning-based Medical Systems
- Artificial Intelligence Techniques in Health Sciences
- Medical Databanks, Databases, and Knowledge Bases
- Neurocomputing in Medicine
- Ontology and Medical Information Science
- Bioethics and Health informatics

Steering Committee

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Todor Stoilov, Bulgarian Academy of Sciences, Bulgaria

Valérie Monfort, SOIE Tunis, Univ. Paris1 Panthéon Sorbonne, Tunisia

Veska Georgieva, Technical University Sofia, Faculty of Telecommunications, Bulgaria

Xiao-Zhi Gao, School of Electrical Engineering, Aalto University, Finland

Language

The official language of the conference is English.



CSAI 2021

VI-th International Conference

Cognitive Science - Approaches and Results towards Artificial Intelligence

July 01 – July 10, 2021, Sofia (Bulgaria)

Aims and Scope

The conference is centered on approaches and results obtained through the study of Cognition and Consciousness, their interpretation and application towards Artificial Intelligence.

Topics of interest

Researches, models in Cognitive Science as well as applications are welcomed.

The topics of interest include but are not limited to:

- Mental representations and mental operations
- Learning and Memory
- Perception in humans, animals, and machines (vision and machine vision, auditory perception, etc.)
- Natural language (psycholinguistics, language acquisition, conceptualization, meaning, etc.) and Natural Language Processing
- Emotions and emotion recognition
- Sentiment analyses
- Cognition and Consciousness
- Social cognition and consciousness
- Rethinking intelligence, including artificial

This large spectrum includes results and models in cognitive science, cognitive neuroscience, biometrics, brain imaging etc. as well as developed applications in neurocomputing, signal processing, pattern recognition, brain-computer interfaces, biometric technologies for human identification, models of society and human behavior etc.

Steering Committee

Velina Slavova, Department of Computer Science, New Bulgarian University, Sofia, Bulgaria

Krassimir Markov, Department of Informational Modeling, Institute of Mathematics and Informatics at BAS, Sofia, Bulgaria

Program Committee

Philip Andonov	Department of Computer Science, New Bulgarian University, Sofia, Bulgaria
Dimitar Atanasov	Department of Computer Science, New Bulgarian University, Sofia, Bulgaria
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Maurice Grinberg	Department of Cognitive Science and Psychology, New Bulgarian University, Sofia, Bulgaria
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Hichem Sahli	ETRO-Audio-Visual Signal Processing , Vrije Universiteit Brussel, Belgium
Albert Ali Salah	Department of Computer Engineering, Bogazici University, Istanbul, Turkey
Abdel-Badeeh M. Salem	Artificial Intelligence and Knowledge Engineering Research Labs, Faculty of Computer and Information sciences, Ain Shams University Abbasia, Cairo-Egypt
Hussein Samani	Institute for Cognitive Sciences Studies, Tehrān, Iran
Alona Soschen	Chief Scientist cognitive linguistics, Amerge Software Inc., Otawwa, Canada
Vassil Vassilev	School of Computing, London Metropolitan University, London, UK

Language

The official language of the conference is English.



INFOS 2021

XIV-th International Conference

Intelligent Information and Engineering Systems

July 01 – July 10, 2021, Varna (Bulgaria)

Aims and Scope

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

Topics of interest

Theoretical foundations:

Genetic Algorithms and Evolutionary Computing
Expert Systems, Hybrid Intelligent Systems
Fuzzy Techniques and Systems
Intelligent Agents and Multi-Agent Systems
Data Mining, Knowledge Acquisition
Knowledge Discovery, Knowledge-Based Systems
Knowledge Representation and Management
Natural Language Processing, Speech Understanding
Neural Networks, Machine Learning
Software engineering and computing techniques

Intelligent Applications:

Artificial Intelligence in Modeling and Simulation
Bioinformatics using Intelligent and Machine Learning
Business Intelligence Systems
Human-Robot interaction, Image Processing
Industrial Control and Monitoring
Intelligent Agents Applications
Intelligent Manufacturing Systems
Intelligent Natural Language Systems
Intelligent Robots
Intelligent Tutoring Systems
Intelligent Web Mining and Applications
Medical and Diagnostic Systems
Mobile Computing and Systems
Multi-Media Intelligent Information Systems

Steering Committee

Galina Setlak, Rzeszow University of Technology, (Poland)
Krassimir Markov, Institute on Information Theories and Applications, (Bulgaria)

Program Committee

Alexander Trousov (IBM Research, Ireland)
Alfredo Milani (Italy)
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Jacek Kluska (Poland)
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Xavier Blanco (Spain)
Yevgeniy Bodyanskiy (Ukraine)
Yuriy Zaichenko (Ukraine)

Language

The official language is English.



GIT 2021

XIX-th International Conference

General Information Theory

July 01 – July 10, 2021, 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 Artificial Intelligence 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
- Non-forceful interaction

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 self-consciousness
- 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 micro world 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.

Steering Committee

Alexander Palagin (Ukraine)
Anatoly Krissilov (Ukraine)
Krassimir Markov (Bulgaria)
Mark Burgin (USA)
Pedro C. Marijuán (Spain)

Rafael Yusupov (Russia)
Vassil Sgurev (Bulgaria)
Vitaliy Lozovskiy (Ukraine)
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Program Committee

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Ekaterina Solovyova (Ukraine)
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Wolfgang Hofkirchner (Austria)
Yevgeniy Bodyanskiy (Ukraine)

Language

The official languages of the conference are English and Russian.



ISSI 2021

XV-th International Summer School on Informatics

July 01 – July 10, 2021, Varna (Bulgaria)

Aims and Scope

The Summer School of informatics is devoted to discussion of current researches, applications and education regarding the basic directions of information technologies, and business informatics:

- **Theoretical Foundations of Informatics:** Conceptions, Modern approaches of Software Development, and Advanced Information Technologies;
- **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

Abdel-Badeeh M. Salem (Egypt)
Olena Chebanyuk (Ukraine)
Evgeny Eremin (Russia)
Hasmik Sahakyan (Armenia)

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

Lyudmila Kirichenko (Ukraine)
Lyudmila Lyadova (Russia)
Luis Fernando de Mingo (Spain)
Olexii Voloshyn (Ukraine)

Languages

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

Certificates

After passing finally tests successfully listeners of workshops will obtain *certificate* about training.

Doctoral consortium

Doctoral consortium proposes to PhD student opportunity to represent research results to ITHEA scientific council reviewers and discuss them in warm friendly atmosphere.

Also you may obtain constructive advices about fundamental research, relating to your PhD topic. It will allow you to improve your research ground to adopt it for collaboration of modern tools and environments variety.

To participate at doctoral consortium event prepare paper, reflecting main results of your PhD. It should be from 8 to 10 pages. Rules for preparing paper manuscript are the same as preparing papers to journals.

Manuscript should be submitted before 30 days to starting of ITA 2021. Then it will be resend to three council members, having experience both in fundamental research and aquanting with achievement in industry for detail aquaintes. Then author has to present his work at ITA 2021 during 30 minutes. After this, the constructive notes from the reviewers will be discussed.


After presenting and polishing, manuscript may be published in ITHEA International Journals.

The cost of doctoral concorcium event for author is 60 euro to be paid directly at conference desk.

After presenting scientific results author obtain ITHEA certificate about approbation of his work.

ITHEA reviewers that participate at PhD consideration also obtain certificate for consideration of scientific work in Internation doctoral consortium.

Applications under Android operating system for Tablet PCs and Smart phones about Varna

Application feature	Detailed information
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;">  <p>Icon</p> </div> <div> <p>Direct Link https://play.google.com/store/apps/details?id=com.gpsmycity.android.u161&hl=uk</p> <p>Purpose Varna city guide following your interests</p> <p>This handy application presents you several self-guided walking tours to see the best of the Varna, Bulgaria, and it comes with detailed tour route maps and powerful navigation features to guide you from one sight to the next. No need to hop on a tour bus or join a tour group; now you can explore all of the best attractions on your own, at your own pace, and at a cost that is only a fraction of what you would normally pay for a guided tour.</p> <p>Application description Walking tours included in this application are:</p> <ul style="list-style-type: none"> * Varna Orientation Tour (8 sights) * Museums in Varna (7 sights) * Religious Sights (7 sights) * Shopping Tour (8 sights) * Sea Garden Tour (8 sights) * Varna Nightlife (8 sights) * Daily Life in Varna (7 sights) </div> </div>	
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;">  <p>Icon</p> </div> <div> <p>Direct Link https://play.google.com/store/apps/details?id=com.travel.bulgaria.ru</p> <p>Purpose Good Bulgarian phrase-book</p> <p>Application description Bulgarian phrasebook will help tourists in any situation. The program will be useful for beginners (Bulgarian learners).</p> </div> </div>	
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;">  <p>Icon</p> </div> <div> <p>Direct Link https://play.google.com/store/apps/details?id=com.funeasylearn.phrasebook.bulgarian&hl=ru</p> <p>Purpose Excellent Bulgarian phrase-book with pictures</p> <p>Application description Bulgarian phrasebook when phrases are divided by topics. The program will be useful for starting communication in Bulgarian.</p> </div> </div>	

Important information for participants in ITA 2021, Varna, Bulgaria**Please read carefully!****1. Contacts**

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

2. Travel to the conference**2.1. From Varna**

The Hotel "KORAL" of the "St. Constantine and St. Helena" resort is located less than 7 km by the way from Varna to the "Golden Sands" resort.

From Varna Airport and Bus station: bus No.: 409 to bus stop "Botanical Garden" (Botanicheska gradina).

From Varna Town Center the busses are: No.: 8 to the Center of "St. Constantine and St. Helena" resort and No.: 9 to bus stop "Botanical Garden" (Botanicheska gradina).

Please, see the map on the next page.

2.2. 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)

2.3. In Sofia

The metropolitan line from the Sofia Airport to the Central Railway Station and the Central Bus Station is still under construction, so the transportation to these stations may be:

- 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 1.60 BGN (possible additional taxes for the luggage).

- Taxicab: **we do not recommend** using 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.

3. Medicines

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

4. 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.

ITHEA International Scientific Society
ITA 2021
Joint International Scientific Events on Informatics

