

Call for Papers and Participation



The R&D Group on Information Technologies for Industrial Safety, Ecology and Medicine [ITISEM](#) in cooperation with the East Ukrainian National University ([EUNU](#)), Institute of Chemical Technologies [ICT](#), and PJSC "SRPA "Impulse", invites you to participate in **Conference on Theoretical and Applied Computer Science and Information Technologies – TACSIT 2017**.

The conference will be hosted at the Faculty of Computer Science and Information Technologies from the EUNU, in Severodonetsk, Ukraine during the period of **May 12th to 13th, 2017**.

Webpage: <http://tacsit.turion.info/>

BACKGROUND

The conference will address CS&IT topics including fundamental research as well as applied studies in different areas of application. The conference will cater to the healthcare, energy, chemical, transportation, manufacturing, and other industrial and critical infrastructure organizations.

The TACSIT is the conference where ICT users, vendors, system providers and researchers meet to discuss the state-of-the-art in CS&IT industry, analyze problems, tasks and cooperate on joint solutions.

Participation in the TACSIT 2017 is open to all researchers within the related areas of the Conference main theme.

TOPICS OF INTEREST

Innovative and exciting works are welcome in areas including but not limited to:

Theoretical and Applied Computer Science:

- Actual problems of the Information Society
- Algorithms and data structures
- Computer Architecture and Engineering
- Computer graphics, visualization and image processing
- Computer Networks
- Databases and Database management systems
- Formal methods
- Intelligent systems and services
- Mathematical and computer software systems
- Mathematical modeling and simulating in engineering, industry, medicine, ecology
- Ontologies, knowledge bases, data models and metadata
- Soft Computing (AI, Neural Networks, Fuzzy Systems, etc.)
- Theoretical and practical aspects of information and analytical systems
- Theory of computation

Knowledge Discovery and Business Intelligence:

- Automated and Case-Based Reasoning
- Advanced analytics
- Business Intelligence in Industry, Ecology, Medicine
- Data integration
- Data Mining
- Data Streaming
- Data warehousing
- Economic and cost-effectiveness analysis
- Information Extraction
- Knowledge engineering
- Knowledge management
- Mining Text and Semi-structured Data
- Predictive analytics
- Structured Data Analysis and Statistical Methods
- Web Mining

Decision Support System Technology:

- AI-based Decision Support Systems
- Decision-making using Social Networks and Web Resources
- Expert systems
- Group Support Systems. Collaborative Decision Making
- Intelligent decision support system
- Methods, Languages and Tools to support Decision Systems
- Models and methods of decision-making
- Multiagent systems
- Software for Decision Support
- Pervasive or Real-Time Intelligent Decision Support Systems in different applications
- Systems based on knowledge
- Applications of Decision Systems in Business and Industry

Computer Systems Security, Safety and Reliability:

- Industrial Control Systems Cyber Security
- Methods to improve the reliability and safety of human-machine systems
- RF and biometric identification technology and verification. The contactless identification
- Safety and reliability of Web-based, grid and cloud systems
- Security of information and communication systems for critical infrastructure
- Studies of object identification
- Studies of privacy and information protection methods
- Testing, diagnosis and verification of components and systems
- Theoretical study of the problems of identification and verification of information systems
- Privacy, confidentiality and security protection

Health Informatics. Computer Science and Information Technology in Healthcare:

- Biomedical data and information processing
- Development and use of biometric methods
- Computer diagnosis and prognosis of computer and consequences of pathological process
- Electronic health records
- Health information portals and digital libraries
- Hospital and clinical information systems
- Information research in medicine and biology
- Mathematical modeling in medicine, pharmacology and biology
- Medical Engineering and Electronics
- Medical information, expert and intelligent systems
- Modern information technology in medical and biological education
- Optimization process control prevention, diagnosis, treatment and rehabilitation

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- Pharmacy informatics
- Problems of medical and biological systems
- Telemedicine technology

Information Technology in Industry, Transport, Energy and Ecology:

- Automated control systems in chemical, transportation, manufacturing, and other industrial and critical infrastructure organizations
- Computer based systems and technologies for railways
- Computer systems for environmental monitoring
- Computer modeling of chemical-engineering processes
- Information and energy saving technologies
- Information systems and technology in environmental activities
- Mathematical models of processes and systems
- Modeling, prediction and control of the environment
- New information technologies for environmental protection
- Plant control systems, engineering workstations, substation equipment, programmable logic controllers (PLCs), and other field control system devices
- Process information systems
- Research of intelligent automated process control systems
- Safety control systems and technologies for critical application

IMPORTANT DATES

- Deadline for paper submission: May 1, 2017
- Notification of paper acceptance: May 9, 2017
- Conference dates: May 12-13, 2017
- Invitation for post-conference publication: June 1, 2017

PAPER SUBMISSION

All submissions must be in English and must conform to the prescribed submission guidelines and formats. Over-length papers or papers that are not following the prescribed submission format may be rejected or asked to resubmit.

All paper and poster submissions must not be in press or under consideration for presentation or publication elsewhere.

All papers should be submitted through [TACSIT'2017 submission system](#); submissions will not be accepted by email or fax.

Accepted contributions can only be included in the final conference program, if at least one author registers for the conference by the registration deadline at the regular fee and commits to presenting the work.

Each submission will be reviewed by two members of the Scientific Program Committee.

All accepted papers will be published in the conference proceedings.

Authors of the best papers presented at the conference will be invited to submit extended versions of their manuscripts for one of the following special issues:

- [Eastern-European Journal of Enterprise Technologies](#)
- [Radio-Electronic and Computer Systems Journal](#)
- [Medical Informatics and Engineering](#)
- [Visnik of the Volodymyr Dahl East Ukrainian national university](#)

PAPER FORMAT

File formats: *.doc, *.docx

Example of paper in English: [Download](#)

Submission Page Limits	
Submission Type	Page Limit
Paper	4
Poster	1
Tutorial Proposal	3
Workshop Proposal	3

Having regard to the complexity of the current political situation in the Eastern of Ukraine we provide opportunity to remote participation: online seminars, workshops, thematic webinars, etc.

For all questions regarding participating and speaking opportunities please contact the organizing committee team.

INDUSTRY PARTNERS

RESEARCH & PRODUCTION ASSOCIATION "IMPULSE"



RPA "Impulse" provides top-edge hardware and software development services tailored to nuclear and heat power engineering facilities, oil and gas complex, railway transport, and other industries and realizes the full producing cycle of I&Cs: hardware and software design, manufacture, verification, validation, testing complex, and implementation.

<http://www.imp.lg.ua/>

RESEARCH AND PRODUCTION ENTERPRISE "ZARYA" LTD



RPE "Zarya" is the leading company of the chemical industry of Ukraine. The production is the main component of the plant infrastructure. At the same time the intensive scientific and research works, the main purpose of which is to improve production processes and technologies, play the key role in the enterprise activity.

<http://www.zaryachem.com/en>

RESEARCH AND DEVELOPMENT INSTITUTE "SEVERODONETSK NIICHIMMASH"



"SEVERODONETSK NIICHIMMASH" is a leading institution in Ukraine on scientific and technical supporting oil and gas refining, petrochemical and chemical industries. The Institute carries out research and development activity to developing up-to-date technologies and equipment for industrial enterprises.

<http://chem.net.ua/>

PROMINVEST PLASTIC LTD



Prominvest Plastic is a major manufacturer of cable flexible PVC in Ukraine. Company includes production lines and research laboratories which conducts work on the development and implementation of new types of flexible PVC with a mandatory quality inspection of all raw materials and components to control the output parameters of finished products.

<http://www.prominvest.com.ua/>

PHARMACEUTICAL COMPANY "MICROKHM"



The main social mission of the pharmaceutical company "Microkhim" is the production of medicines implementing the principle of necessary and sufficient level of medical care. Company deals with formulating complex pharmaceutical compositions, studying of their behavior in the human body and the subsequent production.

<http://www.microkhim.com.ua/>

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