



## TACSIT-2015 Program



### Thursday (14.05.15)

16.00 - Registration  
19.30 - Welcome dinner

### Friday (15.05.15)

8.30- 9.15 Breakfast, Registration  
9.30- 9.45 Introduction and Welcoming Remarks  
9.45- 11.00 Session 1  
11.00- 11.30 Coffee break  
11.30- 13.00 Session 2 and 4  
13.15- 14.00 Lunch  
14.15- 15.45 Session 3 and Workshop on Tempus-SEREIN project  
15.45- 16.15 Coffee break  
16.15- 17.30 Session 5  
17.30- 18.00 Coffee break  
18.00- 19.00 Session 6 and 7  
19.30- Banquet

### Saturday (16.05.15)

8.00- 8.45 Breakfast  
9.00- 11.30 Excursion  
12.00- 13.15 Closing ceremony  
13.30- Departure

### Session 1: Theoretical and Applied Computer Science

*Vladimir Mukha, Maria Prischepchik:* Properties Poisson flow caused finite-dimensional distributions of times of the events occurrences

*Katerina Trifonova, Eline Hryshykashvili:* Polar transformation of the iris for human biometric identification system

*Dmitry Viattchenin, Stanislav Shyrai:* Labeling procedure for results interpretation of heuristic possibilistic clustering of intuitionistic fuzzy data

*Volodymyr Kardashuk, Oleksandra Ponomarchuk, Maxim Marinich:* Mathematical model of temperature control subsystem for organochlorine waste utilization

## **Session 2: Decision Support, Knowledge Discovery, and Business Intelligence**

*Volodymyr Lifar, Oleksandr Ryazantsev, Waldemar Witt:* Information technology for decision support in the technological risks management

*Oleskii Oleksenko:* Syntax-based multiontology discovery method

*Lina Barbaruk:* Multi-dimensional data analysis for accounting of raw, materials and wastes in industry

*Larisa Shumova, Dasha Risuhina:* Improving knowledge control subsystem LMS Moodle to assess the quality of the test material

## **Session 3: Computer Systems Security, Safety and Reliability**

*Yuri Skobtsov, Vadim Skobtsov:* Construction of checking test for faults "induced delay" with many aggressors

*Dmitry Ivanov:* The development of computer-aided diagnosis system for digital circuits using evolutionary algorithms

*Yan Kovalenko, Inna Skarha-Bandurova:* Software and algorithmic solutions for static testing software components of safety-critical systems

*Tamila Lavrovskaya, Serhiy Rassomahin:* Construction of decoding methods based on simple rules of rounding

*Yuri Mischenko, Viktoriya Kosenko, Konstantin Naidenov:* Simulation of testability digital devices in Multisim environment

## **Session 4 Health Informatics. Computer Science & Information Technology in Healthcare**

*Yuri Prokopchuk:* Connectome of intellectual environment

*Inna Skarha-Bandurova, Tetyana Biloborodova:* Using data mining techniques for the prenatal diagnosis of fetal abnormality

*Maxim Nesterov:* Implementation Business Intelligence for healthcare industry

*Anastasiya Titarenko:* Review of data mining algorithms in predicting breast cancer

## **Session 5 Information Technology in Industry, Transport, Energy, and Ecology**

*Serhiy Kondratov, Anna Krasilnikova, M. Al-Hamadani:* Problems of computer simulating nitration of aromatic compounds

*Mikhail Pustovetov:* Computer modeling du/dt filter with variable frequency drive

*Vladislav Shulyakov:* The use of neuro-fuzzy modeling in the development of information management system for adaptive car suspension

*Tetyana Dekina, Viktor Largin:* Selection of equipment for vibration noise diagnostics

*Olga Gritsenko, Viktor Largin:* Selection a method for designing the system of automated packaging of subsystems on the lower levels the process control system

## **Session 6 Web systems and Networks technology**

*Anatoliy Berdnikov, Serhiy Veklich:* A method for reducing the number of request for repetition in data channel

*Taras Basyuk:* Organization of web site during their popularization

*Nikhil Jadhav, Anurag Boggavarapu, Kushal Bang, Akshay Gaikwad, Zarina Shaikh:* Discovery and verification of neighbor position in ad hoc network

*Marina Scherbakova, Egor Tatarchenko, Dmitry Timchenko:* Application of web technologies in computer control systems

## **Session 7 Young scientists**

*Alexander Berezhnoy:* Methods and algorithms for the identification of moving units

*Albina Chernozhukova:* An analysis of the principles of software development for travel agencies

*Yuri Osheko, Pavlo Mostovyuk:* Networks technology in industrial applications

*Eugenia Myznikova, Margarita Demchenko:* Study of web content mining techniques for academic search

## **Workshop on Tempus-SEREIN Project**

*Oleksandr Ryazantsev:* Industrial control systems cyber security: Best practices and risk assessment

*Inna Skarha-Bandurova:* Security aspects of operators' teamwork. Group decision support techniques for critical infrastructure protection

*Volodymyr Lifar, Maxim Nesterov:* A practical security risk analysis: Cumulative risk assessment methods and tools

*Yan Kovalenko:* A cyber security risk assessment for the design of railway interlocking systems

*Artem Velikzhanin:* Application of Bayesian networks to assess the cyber security of I&C systems