



**CSIT'2011**

**CONFERENCE PROGRAMME**



**The VI<sup>th</sup> International Scientific and Technical Conference  
COMPUTER SCIENCE AND INFORMATION TECHNOLOGIES**

**16-19 November 2011 Lviv, Ukraine**

**The VI<sup>th</sup> International Scientific and Technical Conference**  
**COMPUTER SCIENCE AND INFORMATION TECHNOLOGIES**

**16-19 November 2011**  
**Lviv, Ukraine**

**CSIT 2011 Timetable**

| <b>Wednesday, November 16</b>      |   |
|------------------------------------|---|
| 10 <sup>00</sup> -13 <sup>00</sup> | <b>Plenary Session</b> (The Assembly Hall of Lviv Polytechnic National University, main building)   |
| 14 <sup>00</sup> -17 <sup>00</sup> | <b>Session 1 Room A</b> (building № 5, room 807)<br>Chairmen: <b>Prof. Tsmots Ivan, Prof. Dmytro Peleshko</b><br>Secretary: <b>Bogdan Dmytryshyn</b>    |
| 14 <sup>00</sup> -17 <sup>00</sup> | <b>Session 1 Room B</b> (building № 5, room 809)<br>Chairmen: <b>Prof. Bazylevych Roman, Dr. Yakovyna Vitaly</b><br>Secretary: <b>Shmigelskyi Petro</b> |
| <b>Thursday, November 17</b>       |   |
| 10 <sup>00</sup> -13 <sup>00</sup> | <b>Session 2 Room A</b><br>Chairmen: <b>Prof. Fedasyuk Dmytro, Prof. Soprunnyuk Petro</b><br>Secretary: <b>Dr. Maksym Seniv</b>                         |
| 10 <sup>00</sup> -13 <sup>00</sup> | <b>Session 2 Room B</b><br>Chairmen: <b>Dr. Andreichuk Nadiya, Dr. Levus Yevheniya</b><br>Secretary: <b>Osidach Nastasiya</b>                           |
| 14 <sup>00</sup> -17 <sup>00</sup> | <b>Session 3 Room A</b><br>Chairmen: <b>Prof. Lobur Mykhaylo, Dr. Kryvyy Rostyslav</b><br>Secretary: <b>Andriy Pukach</b>                               |
| 14 <sup>00</sup> -17 <sup>00</sup> | <b>Session 3 Room B</b><br>Chairmen: <b>Prof. Shovgenyuk Mykhaylo, Dr. Berezsky Oleh</b><br>Secretary: <b>Bogdan Dmytryshyn</b>                         |
| 17 <sup>00</sup> -17 <sup>30</sup> | Concluding reports of Section's Chairmen.<br>Discussion.  |

| <b>Friday, November 18</b>             |   |
|--|---|
| <b>14<sup>00</sup>-17<sup>00</sup></b> | <p align="center"><b>Session 4 Room A</b></p> Chairmen: <b>Prof. Drahan Yaroslav, Dr. Veres Oleh</b><br>Secretary: <b>Olena Vovk</b>        |
| <b>14<sup>00</sup>-17<sup>00</sup></b> | <p align="center"><b>Session 4 Room B</b></p> Chairmen: <b>Prof. Peleshko Dmyto, Dr. Stekh Yuri</b><br>Secretary: <b>Dr. Natalya Kustra</b> |
| <b>17<sup>00</sup>-17<sup>30</sup></b> | Concluding reports of Section's Chairmen.<br>Discussion.  |

### CSIT 2011 Timetable

| <b>Saturday, November 19</b>           |               |
|--|---------------|
| <b>10<sup>00</sup>-12<sup>00</sup></b> | Final Session |

### Registration of participants

| <b>Tuesday, November 15</b>            |   |
|--|---|
| <b>14<sup>00</sup>-17<sup>00</sup></b> | Building № 5, room 512                      |
| <b>Wednesday, November 16</b>          |   |
| <b>9<sup>00</sup>-10<sup>00</sup></b>  | The Assembly Hall of LPNU, main building    |
| <b>Thursday, November 17</b>           |   |
| <b>9<sup>00</sup>-10<sup>00</sup></b>  | Building № 5, in the lobby on the 8th floor |
| <b>Friday, November 18</b>             |   |
| <b>9<sup>00</sup>-10<sup>00</sup></b>  | Building № 5, in the lobby on the 8th floor |

### TIME FOR PRESENTATIONS

Paper presentation at the plenary session – 20 min.

Paper presentation at the regular session – 7 min.

Discussion, questions – 3 min.



## **CSIT 2011**

**VI<sup>th</sup> International Scientific and Technical Conference  
COMPUTER SCIENCE AND  
INFORMATION TECHNOLOGIES**

Organized by:

Ministry of Education, Science, Youth and Sports of Ukraine  
Lviv Polytechnic National University  
Institute of Computer Science and Information Technologies

Supported by: IEEE MTT/ED/AP/CPMT/SSC West Ukraine Chapter

Lviv, UKRAINE  
16 – 19 November 2011

## INTERNATIONAL PROGRAM COMMITTEE

|                        |  |
|------------------------|--|
| <b>Yu. Bobalo</b>      | <b>Chairman</b> , Lviv Polytechnic National University, Ukraine                |
| <b>M. Medykovskyy</b>  | <b>Vice Chairman</b> , Lviv Polytechnic National University, Ukraine           |
| <b>M. Andriychuk</b>   | IEEE MTT/ED/AP/CPMT/SSC West Ukraine Chapter, Ukraine                          |
| <b>M. Aleksiejenko</b> | University of Szczecin, Poland   |
| <b>A. Arkhangelska</b> | Palacky University in Olomouc, Czech Republic                                  |
| <b>P. Bidyuk</b>       | National Technical University of Ukraine "Kyiv Polytechnic Institute", Ukraine |
| <b>Ye. Bodyanskiy</b>  | Kharkiv National University of Radioelectronics, Ukraine                       |
| <b>Ya. Dragan</b>      | Lviv Polytechnic National University, Ukraine                                  |
| <b>T. Kwater</b>       | University of Rzeszow, Poland  |
| <b>W. Kowalski</b>     | AGH-University of Science and Technology, Poland                               |
| <b>V. Lantsov</b>      | State university of Vladimir, Russia   |
| <b>O. Levchenko</b>    | Lviv Polytechnic National University, Ukraine                                  |
| <b>J. Lipinski</b>     | The Higher School of Informatics, Lodz, Poland                                 |
| <b>M. Lobur</b>        | Lviv Polytechnic National University, Ukraine                                  |
| <b>A. Napieralski</b>  | Technical University of Lodz, Poland   |
| <b>V. Nelayev</b>      | State University of Informatics and Radioelectronics, Belarus                  |
| <b>V. Pasichnyk</b>    | Lviv Polytechnic National University, Ukraine                                  |
| <b>Yu. Rashkevych</b>  | Lviv Polytechnic National University, Ukraine                                  |
| <b>K. Solovyova</b>    | Kharkiv National University of Radio Electronics, Ukraine                      |
| <b>V. Teslyuk</b>      | Lviv Polytechnic National University, Ukraine                                  |
| <b>D. Fedasyuk</b>     | Lviv Polytechnic National University, Ukraine                                  |
| <b>V. Shyrokov</b>     | Ukrainian Language-Informational Centre, NASU, Ukraine                         |

## CONFERENCE ORGANIZING COMMITTEE

**Prof. M. Medykovskyy**, **Chairman**, Director of Institute of Computer Science and Information Technologies of Lviv Polytechnic National University, Ukraine

**Dr. P. Denysyuk**, **Secretary**, CAD Department, Lviv Polytechnic National University, Ukraine

**Members:** V. Teslyuk, M. Andriychuk, N. Shakhovska, O. Matvijiv, V. Yakovyna, A. Kernytskyy, N. Kustra, R. Kryvyy, O. Vovk, M. Melnyk, Yu. Darnobyt, N. Osidach, M. Seniv, O. Berezko, M. Romanyshyn, Yu. Paterega, A Pukach, B. Dupak, Ya. Vasyliuk

## PLENARY SESSION

|                               |  |
|-------------------------------|--|
| <b>Wednesday, November 16</b> | <b>10<sup>00</sup>-13<sup>00</sup></b> |
|-------------------------------|--|

### Conference opening

**Chairmen: Prof. Yu. Bobalo, Prof. M. Medykovskyy**

**Secretary: Dr. Pavlo Denysyuk**

Speech of the Conference's Chairman

**1. System Relations in Explanatory Dictionaries**

*Shyrovok Volodymyr*

**2. Classification of Hadamard Coding Structures and Their Application for Information Protection**

*Shovgenyuk Mykhajlo, Kozlovskii Mykhajlo, Didukh Lyudmyla*

**3. Simulation, Markov Chain and Diffusion Approximation Models – a Case Study**

*Czachórski Tadeusz, Grochla Krzysztof, Józefiok Adam, Nycz Tomasz*

**4. Selection criteria for complex reviews image quality**

*Droniuk Ivanna, Shpak Zoreslava, Nazarkevych Maria*

### SESSION 1, Room A

|                               |  |
|-------------------------------|--|
| <b>Wednesday, November 16</b> | <b>14<sup>00</sup>-17<sup>00</sup></b> |
|-------------------------------|--|

**Chairmen: Prof. Tsmots Ivan  
Prof. Dmytro Peleshko**

**Secretary: Bogdan Dmytryshyn**

**1. Building profiles of open systems data visualization**

*Taras Basyuk*

**2. Face recognition using a combination of PCA algorithms**

*Mukutjuk Olexiy, Korotjejeva Tetjana*

**3. Recognition of video streams**

*Mosorow Włodzimierz, Niedźwiedziński Marian*

**4. Type-2 Neuro-Fuzzy System for Clustering with Variable Fuzzifier**

*Kolchygin Bogdan, Bodyanskiy Yevgeniy*

**5. Use of the bitwise operations for color images encryption and decryption in the RSA algorithm modification**

*Kovalchuk Anatolii, Peleshko Dmytro, Borzov Yurii, Navytka Mariya, Rashkevych Y.Y.*

**6. Singular decomposition in a speech signal processing**

*Peleshko Dmytro, Kovalchuk Anatoliy, Pelekh Yuriy, Peleshko Marta*

**7. Speech signal pseudo invariants**

*Yuriy Rashkevych, Dmytro Peleshko, Anatoliy Kovalchuk, Maria Kupchak, Yuriy Pelekh*

**8. Motion Blurred Images PSF Estimation method**

*Dmytro Peleshko, Andrij Kluyak, Marta Peleshko, Nataliya Kustra*

**9. Exchange device for hardware and software implementation of artificial neural networks**

*Tsmots I.G., Vavruk I. Ye.*

**10. Printed documents identification using Ateb-functions**

*Nazarkevich Maria, Verbenko Iryna*

**11. Stages of FPGA-based neural networks construction**

*Skorokhoda Oleksa, Tsmots Ivan*

**12. On Automata Over Elliptic Curves**

*Skobelev Volodymyr V.*

**13. On some class of controlled permutation operations**

*Skobelev Volodymyr G.*

**14. Development Frequency-Modulated Screening For Line Images**

*Gorodetska Olena, Nazarkevich Mariya*

**15. Using multilayer perceptrons for emotions recognition based on facial expressions**

*Kovalenko Andriy*

**16. Adaptive generalization of neuro-fuzzy systems ensemble**

*Bodyanskiy Ye, Deineko A, Stolnikova M*

**SESSION 1, Room B**

|                               |  |
|-------------------------------|--|
| <b>Wednesday, November 16</b> | <b>14<sup>00</sup>-17<sup>00</sup></b> |
|-------------------------------|--|

**Chairmen: Prof. Bazylevych Roman  
Dr. Yakovyna Vitaly**

**Secretary: Shmigelskyi Petro**

**1. Algorithms for TSP parallelization**

*Bazylevych Roman, Kuz Bohdan*

**2. Modified temporal model of speech**

*Kupchak Mariya*

**3. On the Possibility of Software Reliability Prediction Using RBF Neural Network**

*Yakovyna Vitaly, Synytska Oksana, Kremen Taras, Smirnov Vsevolod*

**4. Image features by intensity volume fragments clustering**

*Melnyk Roman, Kalychak Yuriy*

**5. Algorithm to recognize voice signals based on wavelet transforms**

*Pavlyuk Galyna, Fedorchuk Yevdokym*

**6. Usage of structural information for trained filters coefficients calculation**

*Nakonechny Adrian, Veres Zenoviy*

**7. Determining motion vectors quality during the process of motion estimation**

*Fedak Volodymyr, Nakonechny Adrian*

**8. Expert diagnostic system of hepatitis using neural networks**

*Pushchalo Oleksandr, Semotyuk Volodymyr*

**9. An Investigation of IKN Visual Attention Model Effectiveness at Different Levels of Saliency Map**

*Stepanyuk Sergiy, Tymoshchuk Pavlo V.*

**10. Contour keypoints detection for structural image analysis**

*Melnyk Grygoriy*

**11. The security of BufferZone Automata Net**

*Vasile Razvan*

**12. Social business intelligence text search system based on vector space model.**

*Sagar Ligade, Pravin Game*

**13. Telecommunication Service Management Application in Service-Oriented System**

*Świątek Paweł, Tomczak Jakub M., Cieślińska Katarzyna, Pleszkun Michał*

**14. Application Program For Investigation Of The 2-D Images**

*Fedosyuk Petro*

**15. Grid as the Technology Progress Locomotive**

*Petrenko A.I.*

**SESSION 2, Room A**

|                              |  |
|------------------------------|--|
| <b>Thursday, November 17</b> | <b>10<sup>00</sup>-13<sup>00</sup></b> |
|------------------------------|--|

**Chairmen:** Prof. Fedasyuk Dmytro  
Prof. Soprnyuk Petro

**Secretary:** Dr. Maksym Seniv

**1. Construction of multi-agent system as a way of diagnosing computer systems for dangerous software**

*Kryschuk A. F.*

2. **Control Algorithm of Product Life Cycle Phases Indexes Based on its Innovative Model**  
*Tkachenko Nataliya , Fedorchuk Yevdokim*
3. **Information Systems Acube for Syllabus Development and Analysis**  
*Liubchenko Vira*
4. **Free vibrations of anisotropic axisymmetric bodies from 3D analysis**  
*Gorbas Maksym, Makar Volodymyr*
5. **The research results of the lake Svityaz Holodnetzka tonja basic hydrophysical parameters**  
*Sopranyuk Petro, Yuzevych Volodymyr, Meljnyk Myroslav, Sopranyuk Anastasija*
6. **Technologically Optimum Distributed Multidimensional Systems Based on the Perfect Circular Symmetry**  
*Riznyk Volodymyr*
7. **Custom Templates Development For Code Generation by Text Template Transformation Toolkit From Data Layer in Software Applications**  
*Serdyuk Pavlo, Medynskyi Andriy*
8. **Research Reliability Wireless Sensor Network of Cluster Topology**  
*Kuzmin Olexander, Legkyy Lubomyr*
9. **Reliability Model for Renewal System with Loaded 2-Out-of-3 Redundancy**  
*Shcherbovskykh Serhiy*
10. **The Investigation and Standardization of Quality Indices of Architecture of Software Systems**  
*Harchenko Alexandr, Yatcyshyn Vasyl, Bodnarchuk Ihor*
11. **Mathematical modeling of interrelation between deformation-relaxational processes in capillary-porous bodies and parameters of internal and external heat and mass transfer**  
*Kroshny Ihor, Salo Mykola, Prysak Yura, Jarkyn Volodymyr*
12. **Review of architecture-based software reliability models**  
*Yakovyna Vitaly, Nytrebych Oksana*
13. **Image representing using the polar coordinate system in order to optimize the process of converting images on a plane**  
*Fedasyuk Dmytro, Klymash Taras*
14. **Software pattern for network processes and structures visualization**  
*Shostak A.L., Fedasyuk D.V.*
15. **Multiplicity of Patterns in Pattern-Spatial System**  
*Tkachenko Oleksii*

**SESSION 2, Room B****Thursday, November 17****10<sup>00</sup>-13<sup>00</sup>**

**Chairmen: Dr. Andreichuk Nadiya,  
Dr. Levus Yevheniya**

**Secretary: Osidach Nastasiya**

- 1. Heat transfer modeling with using of liquid boiling to cooling enhancement**  
*Fedasyuk Dmytro, Mukha Taras*
- 2. Computer simulation of heat conduction problem based on meshless approximations**  
*Zhyshkovych Roman, Makar Volodymyr*
- 3. Data Warehouse Models for Image Storing**  
*Pavych Nataliya, Tushnytskyi Ruslan*
- 4. Mathematical and software analysis of temperature regimes for cross-cutting elements of the IEP with foreign inclusions**  
*Gavrysh Vasyl, Nytrebych Oksana, Ahibalov Oleksandr, Noha Yuriy*
- 5. Actual problems of protecting programs from reverse engineering and modification**  
*Dunaev Dmitriy, Lengyel László*
- 6. Generic Plugin-Based Converter of Object File Formats and Its Usage in Retargetable Decompilation**  
*Křoustek Jakub, Matula Peter, Ďurfina Lukáš*
- 7. Using interactive evolution for exploratory data analysis**  
*Rehorek Tomas, Kordik Pavel*
- 8. Universal communication platform for QoS-aware delivery of complex services**  
*Świątek Paweł, Rygielski Piotr*
- 9. Accounting system in foreign languages studying**  
*Melnyk Dmytro, Poltavskiy Dmytro*
- 10. Human desires in Christopher Marlowe's tragedy "The tragic history of the life and death of Doctor Faustus" as reflected in Ukrainian translations**  
*Andreichuk Nadiya, Albota Solomiya*
- 11. Some Aspects of the Presentation of Botanical Nomenclature in Large Explanatory Dictionaries**  
*Osidach Nastasiya, Kulchytskyi Ihor*
- 12. Issues and Peculiarities of Hypertext Localization into Ukrainian: Localizing OpenOffice Help on "Macros and Programming"**  
*Kulchytskyi I.M., Fil B.M., Pavlenko K.I*

### 13. Usage Neural and Semantic Networks for Identification Bibliographic Descriptions Similarity

*Branets Ivan, Levus Yevheniya, Tushnytskyi Ruslan*

### 14. Computer-Assisted Language Learning

*Holubinska Mariana*

## SESSION 3, Room A

|                       |                                    |
|-----------------------|------------------------------------|
| Thursday, November 17 | 14 <sup>00</sup> -17 <sup>00</sup> |
|-----------------------|------------------------------------|

**Chairmen:** Prof. Lobur Mykhaylo  
Dr. Kryvyy Rostyslav

**Secretary:** Andriy Pukach

#### 1. Traffic Estimation Model Improvement

*Havrylyuk Myroslav, Koroteeva Tetyana*

#### 2. The Numerical Modelling Of The Deformation-Relaxation And Heat-Mass Exchange Fields In Capillary-Porous Materials With Fractal Structure

*Sokolowskyi Yaroslav, Shymanskyi Volodymyr, Boretska Iryna, Sykala Olga*

#### 3. The Numerical Modelling Of The Deformation-Relaxation And Heat-Mass Exchange Fields In Capillary-Porous Materials With Fractal Structure

*Sokolowskyi Yaroslav, Mokrytska Olga, Fedoriv-Lys Maryana, Zdolbytskyy Andriy*

#### 4. Investment portfolio management process

*Liovkin Valerii, Dubrovin Valerii*

#### 5. Modeling knowledge base and individualized training in computerized systems of knowledge transfer

*Fedoruk Pavlo, Dutchak Mary*

#### 6. Estimations of algorithms and time complexity for cover problem

*Minukhin Sergey*

#### 7. Cognitive modeling at acceptance of unstructured decisions

*Koshkin Kostyantyn, Voznui Alexander, Yani Anna*

#### 8. Methods of Genetic Programming to Generate Automatic

*Ruslan Grabovyy, Rostyslav Kryvyy, Iurii Paterega*

#### 9. Improvement of the algorithm of selection isomorphic subgraphs from graph

*Pelexhata Kamila, Tkachenko Serhiy, Vasylykivskyi Oleksii*

#### 10. The Application of High-Level Petri Nets to Adaptive Software Architecture

*Guts Yuriy V., Fedasyuk Dmytro V.*

**11. Silicon and Tape Cantilever of Mechanical Type***Dupak Bohdan, Lobur Mykhaylo***12. The genetic algorithm searches the optimal route aircraft***Andriy Brezetsky, Rostyslav Kryvyy, Pavlo Denusyuk, Andriy Zelinskyy***13. Subsystems Models Design of Intellectual Building Based on the Petri Nets***Teslyuk Taras, Tsmots Ivan***SESSION 3, Room B**

|                              |  |
|------------------------------|--|
| <b>Thursday, November 17</b> | <b>14<sup>00</sup>-17<sup>00</sup></b> |
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**Chairmen:** Prof. Shovgenyuk Mykhaylo  
Dr. Berezsky Oleh

**Secretary:** Bogdan Dmytryshyn

- 1. Hybrid Data model for multidimensional sequences representation**  
*Duszeńko Adam*
- 2. Investigation of GNSS accuracy within the precise positioning of moving object in urban area**  
*Hodoň Michal*
- 3. Community Outreach Projects in Computer Engineering Education**  
*Zlotnikova Irina, Theo van der Weide*
- 4. Speech Communication in Multirobot System**  
*Micek Juraj, Puchyova Jana, Hyben Martin*
- 5. Development of neural networks for Lab-chip microcontroller**  
*Faitas Oleg*
- 6. Methods to upload large amounts of data through internet**  
*Yaremchuk Rostyslav, Semotyuk Volodymyr*
- 7. Multi-modular Spring Framework Review**  
*Batyuk Anatolii, Grinets Serhiy*
- 8. Algorithm of image segmentation basis of previous labeling**  
*Berezsky Oleh, Batko Yuri, Dydkina Victorija, Verbovuy Sergiy*
- 9. Vision-based medical expert system**  
*Berezsky Oleh, Berezska Kateryna, Batko Yuri, Melnyk Grygoriy*
- 10. The Gomory method applying for wind farm structure determination**  
*Medykovskyy Mykola, Teslyuk Vasyl, Shunevych Oleh*
- 11. Semantic Length on the Basis of Adaptive Ontologies**  
*Lytvyn Vasyl*
- 12. Computer modeling of synthesis of multi-ink colored images**  
*Kryk Mariya, Shovgenyuk Mykhaylo, Kovalskii Bohdan*
- 13. Modeling Transverse Displacement Isochromes of Munsell**  
*Kulchytska Christina B., Shovgenyuk Mykhaylo V.*

**SESSION 4 , Room A**

|                            |  |
|----------------------------|--|
| <b>Friday, November 18</b> | <b>14<sup>00</sup>-17<sup>00</sup></b> |
|----------------------------|--|

**Chairmen: Prof. Drahan Yaroslav  
Dr. Veres Oleh**

**Secretary: Olena Vovk**

- 1. Methods for visualization and analysis of social networks**  
*Grankovsky Vladimir*
- 2. Contribution of Lviv Polytechnic National University Institutional Repository in the development of Open Access in Ukraine**  
*Andrukhiv Andriy, Tarasov Dmytro*
- 3. Software systems based on ontological models**  
*Burov Eugene*
- 4. A Comparison of Some Classification Methods**  
*Brenych Yana*
- 5. Development the intelligent component of intelligent information system of the film distribution activities**  
*Veres Oleh, Evoyan Edgar*
- 6. Adaptive Fuzzy Clustering of Data With Gaps**  
*Shafronenko A., Shevyakova Y., Volkova V., Pliss I.*
- 7. Commercial Web content lifecycle model**  
*Vysotska Victoria, Chyrun Lubomyr , Lilya Chyrun*
- 8. Multidimensional Representation of the Documents Collection**  
*Khairova Nina*
- 9. Model of aggregating uniterm and his property**  
*Kulyk Sergii*
- 10. Simulation Modeling of Customer's Service Processes in Drugstores**  
*Zolotaryova Iryna, Dorokhov Oleksandr*
- 11. Cryptoresistant Generator on the Basis of Cellular Automata**  
*Chaika Lidiia, Ovchar Roman, Zhikharevich Vladimir, Ostapov Sergey*
- 12. Mathematical Model Of Ethernet Traffic**  
*Rozdimakha E.A., Omelchenko A.V., Fedorov A.V.*
- 13. Aggregation and analysis of Internet resources complex parameters**  
*Bilas Orest, Vishka Nazar*
- 14. System Analysis and Problem of Dataspace Concept in Information Technologies**  
*Drahan Ya.P., Medykovskyi M.O., Shakhovska N.B.*

**15. Modelling transient TCP flows with the use of fluid flow approximation – a numerical study**

*Nycz Monika Maria , Czachórski Tadeusz*

**16. Trends of Service Component Architecture**

*Deepali Virkar, Pravin Game*

**SESSION 4, Room B**

|                            |  |
|----------------------------|--|
| <b>Friday, November 18</b> | <b>14<sup>00</sup>-17<sup>00</sup></b> |
|----------------------------|--|

**Chairmen:** Prof. Peleshko Dmyto  
Prof. Stekh Yuri

**Secretary:** Dr. Natalya Kustra

- 1. Self-organized Public key management Scheme for Mobile Ad Hoc networks- A Survey**  
*Ahmad Alomari*
- 2. Replication of Mobile Information with NoSQL Databases**  
*Singh Dharmendra, Sharma Hemant , Kumar Archana, Paranjape Nachiket*
- 3. Object Database-Based Optimization of Relational Database Access**  
*Pluciennik-Psota Ewa, Pluciennik Tomasz*
- 4. Epistemic logic and the process of argumentation and verification**  
*Bučko Róbert*
- 5. Thermal Modeling of Nanocomposites with Spherical Inclusions by Finite Element Method**  
*Farmaga Ihor, Lobur Mykhaylo, Shmigelskyi Petro*
- 6. Improving the Mechanism of Bankruptcy Prediction Using Kohonen Maps**  
*Yovbak Serhiy, Hanas Yuri, Pustelnyk Yuriy, Prystash Volodymyr, Kernytskyy Andriy*
- 7. The Specific of Computation Cyclic Convolutions for Identical Sequences**  
*Prots'ko Ihor*
- 8. Automated Testing Framework for web Based Applications using Selenium Remote Control**  
*Deshpande Yogini, Prof. Arati Deshpande*
- 9. Dynamic metadata for customized deployment in a multi-tenant B2B setup**  
*Deshmukh Aasawaree, Awatramani Divya, Agrawal Shilpa, Gadia Varun*
- 10. Eliminating Data Deployment by Analyzing Xpath References in XML Access Control**  
*Qassim AL Mahmoud*

**11. Models and Methods for Building Web Recommendation Systems***Yuri Stekh, Alina Logvinenko, Mykhajlo Lobur, Vitalij Artsibasov***12. Design Methodology for Microfluidic Biochips***Dmytryshyn Bogdan***13. A model for analyzing the MEMS structure based on queuing system***Vasyl Teslyuk, Oksana Stetsyna***14. Detecting the edges of moving objects located in low-contrast areas of videostream using algorithm based on mathematical morphology operations***Dmyto Peleshko, Yurii Ivanov***15. Technologies of developing interactive desktop widgets: windows sidebar gadgets***Nina Vyshnevskya, Bogdan Demyda***16. Methods Of Integration Of Homogenous Information Resources In Information Systems***Dmytro Yelizarov***FINAL SESSION**

|                              |  |
|------------------------------|--|
| <b>Saturday, November 19</b> | <b>10<sup>00</sup>-12<sup>00</sup></b> |
|------------------------------|--|

- 1. Conference summary. Discussion of the presented papers.**
- 2. Meeting of the participants, Program and Organizing Committees. Feedbacks on the conference. Discussion on the possible ways of improvement for future.**
- 3. Closing ceremony of CSIT'2011 conference.**

***For notes***