

# IX International Conference on Multimedia and Network Information Systems - MISSI'14

Wrocław, Poland, September 17 – 19, 2014



**Wrocław University of Technology**  
**Institute of Informatics**  
**Poland, Wrocław, ul. Łukasiewicza 5**  
**Building B4 (Faculty of Computer Science and Management)**



## Wednesday, September 17, 2014 r.

- 10<sup>00</sup> – 11<sup>00</sup> *Registration* – building B4, room 447
- 11<sup>00</sup> – 11<sup>30</sup> *Opening Ceremony* – Prof. Aleksander Zgrzywa – b. B4, r. 448
- 11<sup>30</sup> – 13<sup>30</sup> [Plenary Session 1](#) – b. B4, r. 448
- 13<sup>30</sup> – 15<sup>00</sup> *Lunch Break* – b. B4, r. 227
- 15<sup>00</sup> – 16<sup>30</sup> [Session 1: Multimedia Information Technology](#) (part 1) – b. B4, r. 225
- 15<sup>00</sup> – 16<sup>30</sup> [Session 2: Information Systems Specification](#) (part 1) – b. B4, r. 228
- 16<sup>30</sup> – 17<sup>00</sup> *Coffee Break* – b. B4, r. 227
- 17<sup>00</sup> – 18<sup>00</sup> [Session 1: Multimedia Information Technology](#) (part 2) – b. B4, r. 225
- 17<sup>00</sup> – 18<sup>00</sup> [Session 2: Information Systems Specification](#) (part 2) – b. B4, r. 228
- 19<sup>00</sup> – 22<sup>00</sup> *Reception Party* – “Przystanek ZOO”, Restaurant & Pub, Wrocław, Zygmunta Wróblewskiego 1
- 22<sup>00</sup> *Wrocław Multimedia Fountain Special Show* – Wrocław, Park Szczytnicki

## Thursday, September 18, 2014 r.

- 9<sup>00</sup> – 10<sup>00</sup> [Session 1: Multimedia Information Technology](#) (part 3) – b. B4, r. 225
- 10<sup>00</sup> – 11<sup>30</sup> [Plenary Session 2](#) – building B4, room 448
- 11<sup>30</sup> – 12<sup>00</sup> *Coffee Break* – b. B4, r. 227
- 12<sup>00</sup> – 12<sup>30</sup> [Advanced Multimedia Equipments and Systems](#)  
– Piotr Hrebieniuk: Human Technology Interaction – building B4, room 448
- 11<sup>00</sup> – 15<sup>00</sup> ***Advanced Multimedia Equipments and Systems Presentations – b. B4, r. 226***
- 14<sup>00</sup> – 15<sup>00</sup> *Lunch Break* – b. B4, r. 227
- 15<sup>00</sup> *Guided Visit to the Panorama of the Battle of Racławice (“Panorama Racławicka”)*  
*Tourist Old Tram (“Jaś i Małgosia”) Ride through Wrocław*
- 19<sup>30</sup> *Conference Dinner* – “SPIŻ” Mini-Brewery and Restaurant, Wrocław, Rynek-Ratusz 2

## Friday, September 19, 2014 r.

- 9<sup>00</sup> – 10<sup>30</sup> [Session 3: Information Systems Applications](#) (part 1) – building B4, room 225
- 9<sup>00</sup> – 10<sup>30</sup> [Session 4: Web Systems and Network Technologies](#) (part 1) – b. B4, r. 228
- 10<sup>30</sup> – 11<sup>00</sup> *Coffee Break* – b. B4, r. 227
- 11<sup>00</sup> – 12<sup>30</sup> [Session 3: Information Systems Applications](#) (part 2) – b. B4, r. 225
- 11<sup>00</sup> – 12<sup>30</sup> [Session 4: Web Systems and Network Technologies](#) (part 2) – b. B4, r. 228
- 12<sup>30</sup> – 13<sup>00</sup> *Closing Ceremony* – building B4, room 448
- 13<sup>00</sup> – 14<sup>00</sup> *Lunch Break* – b. B4, r. 227

## Plenary Session 1

Interactive three-dimensional graphics on the Internet. Challenges, problems, solutions, *Maria Pietruszka*

## Plenary Session 2

Determining Knowledge of a Collective, *Thanh Ngoc Nguyen*

### Session 1: Multimedia Information Technology

Chairs: *Kazimierz Choroś, Tatiana Jaworska*

#### Part 1

1. Document Image Segmentation Through Clustering and Connectivity Analysis, *Mihai Bogdan Ilie*
2. Fast Encoding of Huge 3D Data Sets in Lossless PNG Format, *Daniel Dworak and Maria Pietruszka*
3. Spatial Representation of Object Location for Image Matching in CBIR, *Tatiana Jaworska*

#### Part 2

4. False and Miss Detections in Temporal Segmentation of TV Sports News Videos – Causes and Remedies, *Kazimierz Choroś*
5. A Comparative Study of Features and Distance Metrics for Trajectory Clustering in Open Video Domains, *Zhanhu Sun and Feng Wang*
6. Facial Emotion Recognition Based on Cascade of Neural Networks, *Elżbieta Kukla and Paweł Nowak*

#### Part 3

7. Human Behavior Recognition Using Negative Curvature Minima and Positive Curvature Maxima Points, *Krzysztof Kowalak, Lukasz Kamiński, Paweł Gardziński, Sławomir Maćkowiak, and Radosław Hofman*
8. Analysis of Web Service Retrieval Methods, *Adam Czyszczon and Aleksander Zgrzywa*
9. Moodle and Freebase: a Semantically Sound Couple, *Marek Kopel*

## Session 2: Information Systems Specification

Chairs: *Zygmunt Mazur, Jozef Pócs*

### Part 1

1. Estimation of the Level of Disturbance in Time Series Using a Median Filter,  
*Jakub Peksinski, Grzegorz Mikolajczak, and Janusz Pawel Kowalski*
2. Reduction of Concepts from Generalized One-sided Concept Lattice Based on Subsets Quality Measure,  
*Peter Butka, Jozef Pócs, and Jana Pócsová*

### Part 2

3. An Attempt to Use Self-Adapting Genetic Algorithms to Optimize Fuzzy Systems for Predicting from a Data Stream,  
*Tadeusz Lasota, Magdalena Smętek, Bogdan Trawiński, and Grzegorz Trawiński*
4. Does Topic Modelling Reflect Semantic Prototypes?,  
*Michał Korzycki and Wojciech Korczyński*

## Session 3: Information Systems Applications

Chairs: *Krzysztof Marasek, Zhanhu Sun*

### Part 1

1. Developing a Multi-Agent System for a Blended Learning Application,  
*Dan-El Neil Vila Rosado, Margarita Esponda-Argüero, and Raúl Roja*
2. Using ACS for Dynamic Traveling Salesman Problem,  
*Andrzej Siemiński*
3. Adaptive Heuristic Colorful Text Image Segmentation using Soft Computing, Enhanced Density-based Scan Algorithm and HSV Color Model,  
*Adam Musiał*

### Part 2

4. Polish-English Statistical Machine Translation of Medical Texts,  
*Krzysztof Wołk and Krzysztof Marasek*
5. Descriptive and Predictive Analyses of Data Representing Aviation Accidents,  
*František Babič, Alexandra Lukáčová, and Ján Paralič*
6. Generative Visual Identity System,  
*Jarosław Andrzejczak and Kinga Glinka*

## Session 4: Web Systems and Network Technologies

Chairs: *Maria Pietruszka, Andrzej Siemiński*

### Part 1

1. Detection of Changes in Group of Services in SOA System by Learning Algorithms,  
*Ilona Bluemke and Marcin Tarka*
2. Modification of Page Rank Algorithm for Music Information Retrieval Systems,  
*Zygmunt Mazur and Konrad Wiklak*

### Part 2

3. Configuration of Complex Interactive Environments,  
*Jędrzej Anisiewicz, Bartosz Jakubicki, Janusz Sobecki, and Zbigniew Wantuła*
4. A Shape-Based Object Identification Scheme in Wireless Multimedia Sensor Networks,  
*Mohsin S Alhilal, Adel Soudani, and Abdullah Al-Dhelaan*



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Processing Society**