

## Preliminary Content of Conference Proceedings

### 1 Multimedia Semantics and Cultural Heritage

- 1.1 Multimedia Retrieval - State of the Art (keynote speech)  
*Peter L. Stanchev*
- 1.2 Creation of a Digital Corpus of Bulgarian Dialects  
*Nikola Ikononov, Milena Dobрева*
- 1.3 Electronic Presentation of Bulgarian Educational Archives: an Ontology-Based Approach  
*Anna Devreni-Koutsouki*
- 1.4 Knowledge Technologies for Description of the Semantics of the Bulgarian Folklore Heritage  
*Desislava Paneva, Konstantin Rangochev, Detelin Luchev*
- 1.5 Using Wordnet for Building an Interlingual Dictionary  
*Juan Bekios, Igor Boguslavsky, Jesús Cardeñosa, Carolina Gallardo*

### 2 Knowledge Discovery and Engineering

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*Peretz Shoval, Veronica Maidel, Bracha Shapira*
- 2.2 Logic Based Pattern Recognition - Ontology Content (2)  
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*Hasmik Sahakyan, Levon Aslanyan*
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- 2.5 Using a Query Expansion Technique to Improve Document Retrieval  
*Abdelmgeid Amin Aly*
- 2.6 Digraphs Definition for an Array Maintenance Problem  
*Angel Herranz, Adriana Toni*
- 2.7 An Effective Method for Constructing Data Structures Solving an Array Maintenance Problem  
*Adriana Toni, Angel Herranz, Juan Castellanos*
- 2.8 The Fuzzy Group Method of Data Handling with Fuzzy Input Variables  
*Yuriy Zaychenko*
- 2.9 Identification and Optimal Control of System Described by Quasilinear Parabolic Equations  
*Mahmoud Farag*

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*Olga Nevzorova, Vladimir Nevzorov, Julia Zin'kina, Nicolay Pjatkin*
- 2.12 Matrix: An Incremental Algorithm for Inferring Implicative Rules from Examples Based on Good Classification Tests  
*Xenia Naidenova*
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*Mikhail Roshchin, Peter Graubmann, Valery Kamaev*
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- 2.15 Using the Agglomerative Method of Hierarchical Clustering as a Data Mining Tool in Capital Market  
*Vera Marinova–Boncheva*

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- 3.2 A Hierarchical Architecture with Parallel Communication for Implementing P Systems  
*Ginés Bravo, Luis Fernández, Fernando Arroyo, Juan A. Frutos*
- 3.3 Static Analysis of Usefulness States in Transition P Systems  
*Juan Alberto Frutos, Luis Fernandez, Fernando Arroyo, Gines Bravo*
- 3.4 Delimited Massively Parallel Algorithm Based on Rules Elimination for Application of Active Rules in Transition P Systems  
*Francisco Javier Gil, Luis Fernández, Fernando Arroyo, Jorge Tejedor*
- 3.5 Researching Framework for Simulating/Implementating P Systems  
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