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**9<sup>th</sup> International Conference  
on Decision Support for Telecommunications  
and Information Society**  
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## Programme

### **Day 1** **Monday, September 5, 2011**

#### **Session 1**

003	<i>Requirements of 4G-based Mobile Broadband on Future Transport Networks;</i> Matthias Fricke, Andrea Heckwolf, Ralf Herber, Ralf Nitsch, Silvia Schwarze, Stefan Voss, Stefan Wevering
004	<i>Multicriteria Reactive Routing;</i> Janusz Granat
005	<i>Robust Weighted Solutions to Multiobjective Linear Optimization;</i> Włodzimierz Ogryczak

#### **Session 2**

006	<i>Knowledge Science - Modeling the Knowledge Creation Process;</i> Yoshiteru Nakamori
007	<i>Multiple Criteria Evaluation and Ranking of Social Penetration of Information Society Technologies;</i> Jan Grzegorek, Andrzej P. Wierzbicki;
008	<i>On MILP Models for the OWA Optimization;</i> Włodzimierz Ogryczak, Paweł Olender

#### **Session 3**

009	<i>Near Decomposability of a Complex System - the Case Study of JDK;</i> Tieju Ma
010	<i>Kansei Information Transfer Technology for Product Recommendation;</i> Mina Ryoke, Van-Nam Huynh, Yoshiteru Nakamori
011	<i>Application of Social Networks Analysis to Map the Social Relationships of People;</i> Marcin Mincer, Ewa Niewiadomska-Szynkiewicz
012	<i>Analysis and Modelling of Domain Registration Process;</i> Piotr Arabas, Przemysław Jaskółka, Mariusz Kamola, Michał Karpowicz

#### **Session 4**

013	<i>Hierarchical Multiobjective Routing in MPLS Networks with Two Service Classes - A Case Study;</i> Rita Girão-Silva, José Craveirinha, João Clímaco
015	<i>A Ring-Based Optical Network Structure;</i> Marco Caserta, Silvia Schwarze, Stefan Voss
016	<i>Integrated Routing and Network Flow Control Embracing Two Layers of TCP/IP Networks - Augmented Langrangian Approach;</i> Andrzej Karbowski
018	<i>Diffusion in Networks;</i> Rafał Kasprzyk
020	<i>Design and Simulation of Wireless Sensor Network Performance Sound Intensity Level Monitoring;</i> Roman Seredyński

**Day 2**  
**Tuesday, September 6, 2011**

**Session 5**

022	<i>Auction Models Supporting End-to-End Connection Trading;</i> Kamil Kołyś, Krzysztof Pieńkosz, Eugeniusz Toczyłowski
023	<i>Energy-Efficient Security Architectures and Protocols in Wireless Sensor Networks;</i> Krzysztof Daniluk, Ewa Niewiadomska-Szynkiewicz
024	<i>Impact of the Use of Network Media on Sports and Tourism Activities;</i> Wojciech B. Rzucek
025	<i>The Level of Saturation of Information Technology and Services for Countries, Regions; Social Factors and Phenomena Affecting the Social Penetration of Modern Communication Techniques;</i> Jerzy Pietrasz

**Session 6**

026	<i>PrOnto: a System of Supporting Research Work in a VRC Using a Personalized Model of Ontological Profile of the User and Group;</i> Cezary Chudzian, Edward Klimasara, Anna Paterek, Jarosław Sobieszek, Andrzej P. Wierzbicki
028	<i>Differentiation of Temporal and Territorial Advancement of Social Penetration of Information Technology in Europe;</i> Beata Ziewiec
029	<i>Optimal Pump Scheduling by Linear Programming for Large Scale Water Transmission System;</i> Jacek Błaszczyk, Kamil Krawczyk, Andrzej Karbowski, Krzysztof Malinowski, Alnoor Allidina

**Session 7**

031	<i>Privacy Preserving and Secure Iris-Based Biometric Authentication for Computer Networks;</i> Przemysław Strzelczyk
032	<i>Uplift Modeling in Marketing;</i> Szymon Jaroszewicz, Piotr Rzepakowski
033	<i>The Position of Some Lateral Optimization Methods on Decision Support;</i> Paweł Białoń

**Session 8**

035	<i>A Hybrid CPU/GPU Cluster for Parallel Computing with Domain Decomposition;</i> Michał Marks, Jarosław Jantura, Przemysław Strzelczyk, Andrzej Sikora, Ewa Niewiadomska-Szynkiewicz
036	<i>Effective Design of the Simulated Annealing Algorithm for the Flowshop Problem with Minimum Makespan Criterion;</i> Jarosław Hurkała, Adam Hurkała
037	<i>RT<sup>T</sup> - Time Validity Constraints in RT<sup>T</sup> Language;</i> Anna Felkner, Adam Kozakiewicz
	<i>Closing Session</i>

038	<i>Probabilistic Data Mapping as a Cryptographycaly Strong Cipher;</i> Y. Stolyarchuk, N. Sapozhnikov
039	<i>The Mechanisms of Improvement Management Information Systems (MIS) in Iran's Agricultural Extension Organizations;</i> F. Lashgarara
040	<i>Role of Knowledge Management in Improving Performance of Iran's Natural Resources Organizations Managers;</i> F. Lashgarara, S. Zafarmoradian, M. Razaghi