## PROGRAM IN BRIEF

### Tuesday, 3 June

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30-10:00</td>
<td>Welcome Address</td>
</tr>
<tr>
<td>10:00-10:40</td>
<td>Keynote I “Big Data: Analysis and Procedures”</td>
</tr>
<tr>
<td></td>
<td>Part 1: <strong>Fuad Aleskerov</strong> “Choice Procedures in Big Data Analysis”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Yong Shi</strong></td>
</tr>
<tr>
<td>10:40-11:20</td>
<td>Part 2. <strong>Sergiy Butenko</strong> &quot;Network-Based Analysis of Big Data”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Svetlana Maltseva</strong></td>
</tr>
<tr>
<td>11:20-11:40</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:40-12:30</td>
<td>Tutorial I: <strong>Ning Zhong</strong> “Research Issues and Challenges on Brain Informatics”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Alexander Lepskiy</strong></td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>14:00-16:00</td>
<td>Session I (SS01, SS02, SS03, W02)</td>
</tr>
<tr>
<td>16:00-16:20</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>16:20-18:20</td>
<td>Session II (SS01, SS09, W01, W02)</td>
</tr>
<tr>
<td>19:00-21:00</td>
<td>Welcome Party, IAITQM Awards Ceremony</td>
</tr>
</tbody>
</table>

### Wednesday, 4 June

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:45-10:35</td>
<td>Keynote II: <strong>Shouyang Wang</strong> “TEI@I Methodology and Applications to Economic Analysis and Forecasting”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Vyacheslav Chistyakov</strong></td>
</tr>
<tr>
<td>10:40-11:30</td>
<td>Tutorial II: <strong>Boris Mirkin</strong> “Data Clustering: Some Topics of Current Interest”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Valery Kalyagin</strong></td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:50-13:30</td>
<td>Session III (SS05, SS06, SS07, W07)</td>
</tr>
<tr>
<td>13:30-15:00</td>
<td>Lunch Break, IAITQM Board Meeting</td>
</tr>
<tr>
<td>15:00-16:40</td>
<td>Session IV (SS04, SS06, SS07, W04, W08)</td>
</tr>
<tr>
<td>16:40-17:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>17:00-18:40</td>
<td>Session V (SS04, SS06, W03, W04, W08)</td>
</tr>
</tbody>
</table>

### Thursday, 5 June

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:45-10:35</td>
<td>Keynote III: <strong>Panos M. Pardalos</strong> “A New Embedded Feature Selection Method for High Dimensional Datasets”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Fuad Aleskerov</strong></td>
</tr>
<tr>
<td>10:40-11:30</td>
<td>Tutorial III: <strong>Luiz F. Autran M. Gomes</strong> “Robustness in Discrete Multi-Criteria Decision Analysis”</td>
</tr>
<tr>
<td></td>
<td>Chairman: <strong>Boris Mirkin</strong></td>
</tr>
<tr>
<td>11:30-11:45</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:45-13:25</td>
<td>Session VI (SS08, W05, W06, W09)</td>
</tr>
<tr>
<td>13:25-13:40</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>14:00-15:00</td>
<td>Session VII (SS08, W05, W06, W09)</td>
</tr>
<tr>
<td>15:00-16:00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>20:00-23:00</td>
<td>Banquet</td>
</tr>
</tbody>
</table>
DETAILED SCHEDULE

Special Sessions

Special Session 01
IT Enabled Economic Computing and Simulating

S01a
Chair: Shouyang Wang and Xiaoguang Yang

1. Was the Construction Sector in 20 European Countries Anti-Cyclical during the Recession Years 2008-2009 as measured by Multicriteria Analysis (MULTIMOORA)? (ID_136)
   Author(s): Willem Brauers, Edmundas Zavadskas and Simona Kildienè

2. A novel divide-and-conquer model for CPI prediction using ARIMA, gray model and BPNN (ID_123)
   Author(s): Zhou Zhou, Huiyan Dong and Shouyang Wang

3. A simulation on the public good provision under various taxation systems (ID_75)
   Author(s): Toshitaka Fukiharu

4. The Performance of Science & Technology Investment and Finance Based on the support vector machine (ID_A8)
   Author(s): Jing Gu

5. Estimating returns to education of Chinese residents: Evidence from optimal model selection (ID_34)
   Author(s): Yi Hu, Dongmei Guo and Shouyang Wang

6. Comparative Analysis of Trust in Online Communities (ID_174)
   Author(s): Hyoung-Yong Lee, Hyunchul Ahn, Heungki Kim and Jongwon Lee

S01b
Chair: Shouyang Wang and Xiaoguang Yang

1. Disposition effect in an Agent-based Financial Market Model (ID_101)
   Author(s): Bangwei Li, Wei Shang, Lin Huo and Shanying Xu

2. A New Idea of Study on the Influence Factors of Companies’ Debt Costs in the Big Data Era (ID_80)
   Author(s): Lin Li, Shuang Wang, Yifang Liu and Shouyang Wang

3. Forecasting direction of China security Index 300 movement with Least Squares Support Vector Machine (ID_127)
   Author(s): Shuai Wang

4. Multi-Dimension Monitoring System for Regional Economy: Exploration and Practice in Xinjiang Autonomous Region (ID_52)
   Author(s): Haizhen Yang, Suxiao Li, Yanyi Ye and Xiaoguang Yang
5. An Empirical Analysis on Regional Technical Efficiency of Chinese Steel Sector Based on Network DEA Method (ID_91)
   Author(s): Wei Yang, Yanmin Shao and Shouyang Wang

6. Financial Conditions Index’s Construction and Its Application on Financial Monitoring and Economic Forecasting (ID_8)
   Author(s): Guihuan Zheng and Yu Wang

7. Intraday Volatility Spillovers between Index Futures and Spot Market: Evidence from China (ID_105)
   Author(s): Zhou Zhou, Huiyan Dong and Shouyang Wang

Special Session 02
QM in Energy Economics and Electric Networks

S02 
Chair: Alexander Vasin and Alexander Belenky

1. Interaction of generation companies in the electricity market of Russia (ID_15)
   Author(s): Natalia Aizenberg

2. Finding Optimal Production and Selling Strategies for an Electricity Generator in a Part of a Country’s Electrical Grid (ID_175)
   Author(s): Alexander Belenky

3. Determination of transmission capacity for a two-node market (ID_26)
   Author(s): Ekaterina Daylova and Alexander Vasin

4. Bilevel optimization approach to modeling electricity market under generating and transmission line capacity expansion (ID_A6)
   Author(s): S.A. Gakh, O.V. Khamisov, S.V. Podkovalnikov

5. Strongly Time-Consistent Solutions for Two-Stage Network Games (ID_40)
   Author(s): Hongwei Gao, Leon Petrosyan and Artem Sedakov

6. Game-theoretic study of electricity market mechanisms (ID_23)
   Author(s): Alexander Vasin

Special Session 03
QM in Finance and Banking

S03 
Chair: Feliks I. Ereshko, Alexander M. Karminsky

1. A financial stability index for Israel (ID_145)
   Author(s): Vadim Arzaamasov and Henry Penikas

2. Effectiveness of different trading strategies for price-takers (ID_24)
Author(s): Liudmila Egorova

3. **Prediction of customer attrition of commercial banks based on SVM model** (ID_66)
   Author(s): Benlan He, Yong Shi, Qian Wan and Xi Zhao

4. **Comparison of bank financial stability factors in CIS countries** (ID_114)
   Author(s): Alexander Karminsky and Alexander Kostrov

5. **Analysis on the effect of new futures contract coming into market: Taking the related metal futures in SHFE for example** (ID_30)
   Author(s): Bin Wang and Wen Long

6. **The Accuracy and Effectiveness of Securities Analysts’ Pricing Forecast – Empirical Research based on A-share IPOs** (ID_88)
   Author(s): Jiani Wang and Manhong Liu

Special Session 04
Fuzzy Preference Modelling, Decision Making and Consensus

**S04a**
Chair: Enrique Herrera-Viedma, Hamido Fujita, Francisco Chiclana, Francisco Javier Cabrerizo, Ignacio Javier Pérez
Wed, 4 June 2014 15:00-16:40

1. **Leveraging localized Social Media Insights for early warning systems** (ID_157)
   Author(s): Juan Bernabé-Moreno, Álvaro Tejeda-Lorente, Carlos Porcel and Enrique Herrera-Viedma

2. **Identifying Citation Classics in Fuzzy Decision Making Field using the Concept of H-Classics** (ID_86)
   Author(s): Manuel Jesus Cobo Martin, M.A. Martínez, M. Gutiérrez-Salcedo, M. Herrera and Enrique Herrera-Viedma

3. **The conditional fuzzy densities of subjective decision support systems for WCY 2012** (ID_121)
   Author(s): Hamido Fujita and Eugene Ko

   Author(s): Alexander Ivanov, Daniel Karabekyan, Vyacheslav Yakubu

5. **Integrating quality criteria in a fuzzy linguistic recommender system for digital libraries** (ID_155)
   Author(s): Álvaro Tejeda-Lorente, Juan Bernabé-Moreno, Carlos Porcel and Enrique Herrera-Viedma

**S04b**
Chair: Enrique Herrera-Viedma, Hamido Fujita, Francisco Chiclana, Francisco Javier Cabrerizo, Ignacio Javier Pérez
Wed, 4 June 2014 17:00-18:40

1. **Review of Current Studies in Verbal Decision Analysis (VDA)** (ID_A2)
   Author(s): Helen M. Moshkovich and Alexander I. Mechitov
2. Reaching consensus in digital libraries: a linguistic approach (ID_69)
   Author(s): Ignacio Javier Pérez, Francisco Javier Cabrerizo, Juan Antonio Morente-Molinera, Raquel Ureña and Enrique Herrera-Viedma

3. On incomplete fuzzy and multiplicative preference relations in Multi person decision making (ID_117)
   Author(s): Raquel Ureña, Francisco Chiclana, Sergio Alonso, Juan Antonio Morente-Molinera and Enrique Herrera-Viedma

4. The majority preference relation based on cone preference relations of the decision makers (ID_129)
   Author(s): Alexey Zakharov

5. An analysis of several novel frameworks and models in the consensus reaching process (ID_38)
   Author(s): Hengjie Zhang, Yucheng Dong and Yinfeng Xu

Special Session 05
QM and Mechanism Design

S05
Chair: Dmitry A. Novikov
Wed, 4 June 2014
11:50-13:30

1. Evaluation of optimal international economic policy based on both the parametric control theory and global computable general equilibrium model (ID_103)
   Author(s): Abdykappar Ashimov, Yuriy Borovskiy, Nikolay Borovskiy, Zheksenbek Adilov, Rakhman Alshanov and Bahyt Sultanov

2. Comparative analysis of ICT in public–private systems: The OHIM case in the European Union and the Internal Revenue System in Chile (ID_19)
   Author(s): Felisa Cordova, Claudia Duran and Raquel Galindo

3. Location-Price Game-Theoretic Model and Applications (ID_111)
   Author(s): Hogwei Gao, Jinsong Hu, Vladimir Mazalov, Anna Shchiptsova, Li Song and Julia Tokareva

4. Matching markets and interval order preferences: strategy-proofness vs efficiency (ID_119)
   Author(s): Sofya Kiselgof

Special Session 06
Logistics and optimization

S06a
Chair: Panos M. Pardalos, Mikhail Batsyn
Wed, 4 June 2014
11:50-13:30

1. Heuristic for a real-life truck and trailer routing problem (ID_116)
   Author(s): Mikhail Batsyn and Alexander Ponomarenko
2. A metaheuristic approach for the problem of motor fuel distribution (ID_25)
Author(s): Alexander Belov and Sergey Slastnikov

3. Optimizing the electric charge station network of EŞARJ (ID_4)
Author(s): Haris Gavranović, Alper Barut, Gürdal Ertek, Orkun Berk Yüzbaşıoğlu, Osman Pekpostalç and Önder Tombuş

4. Forecasting Container throughputs with Domain Knowledge (ID_96)
Author(s): Anqiang Huang, Han Qiao and Shouyang Wang

5. Modeling and Solution Approach for the Environmental Traveling Salesman Problem (ID_A9)
Author(s): Georgios K.D. Saharidis, George Kolomvos, George Liberopoulos

S06b
Chair: Øyvind Halskau

1. On routing and safety using helicopters in a hub and spoke fashion in the offshore petroleum’s industry (ID_172)
Author(s): Øyvind Halskau

2. Fleet sizing for offshore supply vessels with stochastic sailing and service times (ID_138)
Author(s): Yauhen Maisiuk and Irina Gribkovskaia

3. Routing of supply vessels to offshore installations with deliveries and pickups of multiple commodities (ID_133)
Author(s): Eugen Sopot and Irina Gribkovskaia

4. Incentive problem in gas transport infrastructure development on the Norwegian continental shelf (ID_65)
Author(s): Katerina Shaton

S06c
Chair: Panos M. Pardalos, Mikhail Batsyn

1. Heuristics for Minimum Spanning k-tree Problem (ID_163)
Author(s): Roman Shangin and Panos Pardalos

2. A dynamic programming heuristic for optimizing slot sizes in a warehouse (ID_115)
Author(s): Pavel Sukhov, Mikhail Batsyn and Petr Terentev

3. Solving the uncapacitated r-allocation p-hub median problem by General VNS (ID_A4)
Author(s): Todosijevic R., Hanafi S., Mladenovic N. and Urosevic D.

4. Dynamic performance assessment of bus transit with the multi-activity network structure (ID_A3)
Author(s): Ming-Miin Yu and Li-Hsueh Chen
5. Deterministic use of several neighborhoods in local search: an empirical study on traveling salesman problem (ID_A10)
   Author(s): Todosijevic R., Mjirda A., Hanafi S. and Mladenovic N.

Special Session 07
Soft Computing Methods in Quantitative Management and Decision Making

S07a  Wed, 4 June 2014  11:50-13:30
Chair: Florin Gheorghe Filip, Ioan Dzitac

1. Matlab Application of Kohonen Self-Organising Map to Classify Consumers’ Load Profiles (ID_72)
   Author(s): Otilia Elena Dragomir, Dragomir Florin and Radulescu Marian

2. Business mobile-line selection in Turkey by using fuzzy TOPSIS, one of the multi-criteria decision methods (ID_10)
   Author(s): Irfan Ertugrul and Tayfun Oztas

3. A descriptive model for aligning the Internet stakeholders’ goals in the context of development in LDCs (ID_132)
   Author(s): Elly Amani Gamukama

4. Metrics of collaborative business systems in the knowledge-based economy (ID_60)
   Author(s): Ion Ivan, Cristian Ciurea and Alin Zamfirouiu

5. A new concept of project robust schedule – use of buffers (ID_141)
   Author(s): Dorota Kuchta

S07b  Wed, 4 June 2014  15:00-16:40
Chair: Florin Gheorghe Filip, Ioan Dzitac

1. On the stability of comparing histograms with help of probabilistic methods (ID_89)
   Author(s): Alexander Lepskiy

2. Special Types of Fuzzy Relations (ID_84)
   Author(s): Sorin Nadaban and Ioan Dzitac

3. Automated reasoning for supplier performance appraisal in supply chains (ID_142)
   Author(s): Juan Sepúlveda and Ivan Derpich

4. An Effective personnel selection model (ID_167)
   Author(s): Sergey Shvydun and Ekaterina Kalugina

5. The Selection Algorithm of Mechanisms for Management of Information Risks (ID_68)
   Author(s): Victor Zavgorodniy, Pavel Lukyanov and Stanislav Nazarov

6. Time Series Forecasting using Nonlinear Dynamic Methods and Identification of Deterministic Chaos (ID_150)
   Author(s): Elena Malyutina and Vladimir Shiryaev
Special Session 08
Formal Concept Analysis and Rough Set Theory for Information Technologies and Quantitative Management

S08a  Thu, 5 June 2014  11:45-13:25
Chair: Sergei O. Kuznetsov, Dominik Slezak

1. Is Concept Stability a Measure for Pattern Selection? (ID_135)
   Author(s): Aleksey Buzmakov, Amedeo Napoli and Sergei O. Kuznetsov

2. Greedy Modifications of OAC-triclustering algorithm (ID_170)
   Author(s): Dmitry Gnatyshak

3. Connectivity analysis of computer science centers based on scientific publications data for major Russian cities (ID_131)
   Author(s): Fedor Krasnov, Evgeniya Vlasova and Rostislav Yavorsky

4. Using formal concept analysis for finding the closest relatives among a group of organisms (ID_126)
   Author(s): Alena Lihonosova and Alexandra Kaminskaya

5. Advancing FCA Workflow in FCART System for Knowledge Discovery in Quantitative Data (ID_33)
   Author(s): Alexey Neznanov, Dmitry Ilvovsky and Andrew Parinov

S08b  Thu, 5 June 2014  14:00-15:00
Chair: Sergei O. Kuznetsov, Dominik Slezak

1. Negative attributes and implications in Formal Concept Analysis (ID_112)
   Author(s): Jose Manuel Rodriguez Jimenez, Pablo Cordero Ortega, Angel Mora and Manuel Enciso

2. Modeling text similarity with Parse Thickets (ID_149)
   Author(s): Fedor Strok

3. Concept Learning from Triadic Data (ID_137)
   Author(s): Roman Zhuk and Dmitry Ignatov

Special Session 09
Analytics in Education

S09  Tue, 3 June 2014  16:20-18:20
Chair: Peter Wolcott

1. E-learning Platforms in Higher Education. Case Study (ID_177)
   Author(s): D Benta, G Bologna and I Dzitac
2. **Big Data Structuring: The Role of Visual Models and Ontologies** (ID_54)
   Author(s): Tatiana Gavrilova and Margarita Gladkova

3. **Determinants of graduation rate and graduation time in higher education in Colombia 1998-2010** (ID_A1)
   Author(s): Luis Omar Herrera Prada

4. **The Search Engine IQ Test based on the Internet IQ Evaluation Algorithm** (ID_161)
   Author(s): Feng Liu and Yong Shi

5. **Predictive model of strategic development of a university** (ID_70)
   Author(s): Nadezhda Titova and Aleksey Shutov

**Workshops**

**Workshop 01**
**Multicriteria Analysis with Imprecise Information and Criteria Interaction**

**W01**
Chair: Luiz Flavio Autran Monteiro Gomes, Alexander E. Lepski

1. **Sensitivity of long-term production projects from expert judgments** (ID_118)
   Author(s): Mikhail Dmitriev and Vadim Lomazov

2. **Interval-valued intuitionistic fuzzy TODIM** (ID_37)
   Author(s): Renato Krohling and André Pacheco

3. **Multicriteria analysis of natural gas destination in Brazil: A comparison of TODIM against the use of the Choquet Integral** (ID_57)
   Author(s): Luiz Flavio Autran Monteiro Gomes, Maria Augusta Machado Soares and Luis Alberto Duncan Rangel

4. **Using the Choquet Integral to Improve Systems Usability: A multicriteria analysis** (ID_90)
   Author(s): Luiz Flavio Autran Monteiro Gomes, Maria Augusta Machado, Luis Rangel and Renato Monte Araujo

5. **Application of Fuzzy AHP approach for financial performance evaluation of Iranian petrochemical sector** (ID_146)
   Author(s): Ali Asghar Anvary Rostamy, Meysam Shaverdi and Iman Ramezani

6. **Notes on Dependent Attributes in TOPSIS** (ID_54)
   Author(s): Alberto Vega, Juan Aguarrón, Jorge García-Alcaraz and José María Moreno-Jiménez

**Workshop 02**
**Intelligent Decision Making and Extenics based Innovation**

**W02a**
Chair: Xingsen Li, Haolan Zhang, Bin Shen and Yanbin Liu

Tue, 3 June 2014
14:00-16:00
1. **Enterprise Architecture Migration Planning Using the Matrix of Change** (ID_36)
   Author(s): Vadim Agievich and Kirill Skripkin

2. **On the systematic Method to Enhance the Epiphany ability of individual** (ID_107)
   Author(s): Ailing Chen, Wei Liu and Jun Zhang

3. **Supplier Selection: A Fuzzy-ANP Approach** (ID_102)
   Author(s): Ahmad Dargi, Ali Anjomshoae, Masoud Rahiminezhad Galankashi, Ashkan Memari and Masine Md. Tap

4. **Efficiency assessment in two-stage processes: A novel network DEA approach** (ID_49)
   Author(s): Dimitris Despotis and Gregory Koronakos

5. **Critical Factors on Information Technology Acceptance and Use: an Analysis on Small and Medium Brazilian Clothing Industries** (ID_20)
   Author(s): Rafael Alexandre Dos Reis and Maria Do Carmo Duarte Freitas

6. **A Novel Feature Selection Method Based on an Integrated Data Envelopment Analysis and Entropy Model** (ID_93)
   Author(s): Seyed Mojtaba Hosseini Bamakan and Peyman Gholami

---

**W02b**

Chair: Xingsen Li, Haolan Zhang, Bin Shen and Yanbin Liu

Tue, 3 June 2014 16:20-18:20

1. **Quantitative Analysis of Reference Help Desk Utilization Trend** (ID_61)
   Author(s): Fangyao Liu, Shiu-Ren Chao, Xingsen Li and Zhiwei Yu

2. **How to Improve Divergent Thinking Capability by Information Technology and Extenics** (ID_27)
   Author(s): Mengjing Ni, Li Yang, Jinzi Chen, Hong Chen, Xingsen Li and Zhiwei Yu

3. **Innovation Explore of Entrepreneurship Education Based on Extenics** (ID_122)
   Author(s): Min Yang and Rajan Alex

4. **A Share Learning Framework for Innovation Education: Improving Creative Thinking Capability from Daily Life** (ID_58)
   Author(s): Zhiwei Yu

5. **Application of rhombic thinking mode in highway slope greening design** (ID_160)
   Author(s): Wei Wei Zhu, Yang Yang Tan and Xun Guan

---

**Workshop 03**

**Intelligent Knowledge Management**

**W03**

Chair: Jifa Gu, Lingling Zhang

Wed, 4 June 2014 17:00-18:40

1. **Rule-based expert systems for supporting university students** (ID_5)
2. Data, DIKW, Big data and Data science (ID_120)
   Author(s): Jifa Gu and Lingling Zhang

3. A recommendation approach based on link prediction and domain knowledge in retail transactions (ID_128)
   Author(s): Jing Li, Lingling Zhang, Fenhua Li and Fan Meng

4. The Design of a Natural Language Interface for File System Operations on the Basis of a Structured Meanings Model (ID_147)
   Author(s): Alexander Razorenov and Vladimir Fomichov

Workshop 04
Risk Correlation Analysis and Risk Measurement

W04a
Wed, 4 June 2014
Chair: Jianping Li, Yi Peng, Xiaodong Lin, Rongda Chen, Henry Penikas
15:00-16:40

1. Optimization of Integrated Risk in Commercial Banking Based on Financial Statements (ID_76)
   Author(s): Chunbing Bao, Jianping Li, Dengsheng Wu, Xiaoqian Zhu, Changzhi Liang and Chang Liu

2. Regime-dependent robust risk measures with application in portfolio selection (ID_55)
   Author(s): Jia Liu and Zhiping Chen

3. Financial Risk as a Good (ID_21)
   Author(s): Henry Penikas, W.Travis Selmier Ii and Kseniia Vasileva

4. Research on Simulation of Credit Risk of Credit Card Based on Multi-Agent (ID_78)
   Author(s): Li Shuai, Chao Xu, Hui Lai and Zongfang Zhou

5. Research on Impact of Moral Hazard on Individual Credit Risk (ID_87)
   Author(s): Li Shuai, Yang Yang and Zongfang Zhou

W04b
Wed, 4 June 2014
Chair: Jianping Li, Yi Peng, Xiaodong Lin, Rongda Chen, Henry Penikas
17:00-18:40

1. Stock Price Prediction Based on SSA and SVM (ID_92)
   Author(s): Fenghua Wen, Jihong Xiao, Zhifang He, Xu Gong and Rongda Chen

2. Features Extraction and Reconstruction of Country Risk based on Empirical EMD (ID_41)
   Author(s): Xiaoyang Yao, Xiaolei Sun, Yuying Yang, Dengsheng Wu and Xun Liang

3. A SVM Stock Selection Model within PCA (ID_63)
   Author(s): Huanhuan Yu, Rongda Chen and Guoping Zhang
4. Companies’ behavior of carbon emission reduction at the risk of oil price volatility (ID_47)
   Author(s): Guoxing Zhang, Peng Liu, Xiulin Gao and Mingxing Liu

Workshop 05
Optimization-based Data Mining

W05a
Thu, 5 June 2014
Chair: Yingjie Tian, Zhiquan Qi, Yong Shi, Boris Mirkin
11:45-13:25

1. Consistency simulation and optimization for HPIBM model in emergency decision making
   (ID_85)
   Author(s): Daji Ergu and Mingshan Zhang

2. An exponential approximation algorithm in linear programming (ID_97)
   Author(s): Victor Gordunovsky

3. Support Vector Regression and Time Series Analysis for the Forecasting of Bayannur's
   Total Water Requirement (ID_79)
   Author(s): Xuchan Ju, Manjin Cheng, Yuhong Xia, Fuqiang Quo and Yingjie Tian

4. Multi-task parallel algorithm for DSRC (ID_173)
   Author(s): He Na, Luo Haibiao and Wang Bingqiang

W05b
Thu, 5 June 2014
Chair: Yingjie Tian, Zhiquan Qi, Yong Shi, Boris Mirkin
14:00-15:00

1. Parallel Regularized Multiple-Criteria Linear Programming (ID_13)
   Author(s): Zhiquan Qi

2. Weighted linear loss support vector machine for large scale problems (ID_94)
   Author(s): Yuan-Hai Shao, Zhen Wang, Zhi-Min Yang and Nai-Yang Deng

3. Correlation analysis for multiple-dimensional properties of water resources (ID_82)
   Author(s): Qin Zhang, Manjin Cheng, Yuhong Xia and Fuqiang Quo

Workshop 06
The First Workshop on Data Mining and Social Network Analysis

W06a
Thu, 5 June 2014
Chair: Peng Zhang, Svetlana Maltseva
11:45-13:25

1. Estimating the Locations of Emergency Events from Twitter Streams (ID_106)
   Author(s): Ji Ao, Peng Zhang and Yanan Cao

2. A Method Based on One-Class SVM for News Recommendation (ID_45)
   Author(s): Limeng Cui and Yong Shi
3. Incorporating Community detection and Clustering Techniques into Collaborative Filtering Model (ID_14)
   Author(s): Wei Deng, Rajvardhan Patil, Lotfollah Najjar, Yong Shi and Zhengxin Chen

4. Weighted Graph Clustering for Community Detection of Large Social Networks (ID_16)
   Author(s): Shan Feng, Ruifang Liu, Ruisheng Shi, Weiping Huang and Wenbin Guo

5. On the Frequency Distribution of Retweets (ID_110)
   Author(s): Yao Lu, Peng Zhang and Yanan Cao

W06b
Chair: Peng Zhang, Svetlana Maltseva
Thu, 5 June 2014 14:00-15:00

1. Models of Network Excitation Control (ID_31)
   Author(s): Dmitry Novikov

   Author(s): Minghe Sun, Zhen-Yu Chen and Zhi-Ping Fan

3. VAPA: Vehicle activity patterns analysis based on Automatic Number Plate Recognition System Data (ID_12)
   Author(s): Yuyan Sun, Limin Sun, Xinyun Zhou and Hongsong Zhu

Workshop 07
High Performance Data Analysis

W07
Chair: Fuad Aleskerov, Vassil Alexandrov, Ying Liu
Wed, 4 June 2014 11:50-13:30

1. A Novel Shilling Attack Detection Method (ID_28)
   Author(s): Alper Bilge, Zeynep Ozdemir and Huseyin Polat

2. On the superposition of the Borda and threshold preference orders for three-graded rankings (ID_154)
   Author(s): Vyacheslav V. Chistyakov

3. Analysis of global data education and patent activity using new methods of pattern analysis (ID_71)
   Author(s): Alexey Myachin

4. Clustering and Classification of Software Components for Efficient Component Retrieval and Building Component Reuse Libraries - A Feature Vector Based Approach (ID_156)
   Author(s): Vangipuram Radhakrishna, C. Srinivas and C.V. Gururao

Workshop 08
Semantic Learning and Intelligent Awareness
1. **Analysis and Detection of Bogus Behavior in Web Crawler Measurement** (ID_164)
   Author(s): Quan Bai, Gang Xiong, Yong Zhao and Longtao He

2. **Specification-based approach for denotational semantic of orthogonal object/relational DBMS** (ID_59)
   Author(s): Amel Benabbou and Safia Nait Bahloul

3. **Specificities of Lexicological Synthesis of Text Documents** (ID_67)
   Author(s): Boris Chernikov and Alexander Karminsky

4. **A method for refining a taxonomy by using annotated suffix trees and Wikipedia resources** (ID_32)
   Author(s): Ekaterina Chernyak and Boris Mirkin

5. **Sentiment Classification Based on AS-LDA Model** (ID_77)
   Author(s): Jiguang Liang, Ping Liu, Jianlong Tan and Shuo Bai

---

1. **Feature extension for short text categorization using frequent term sets** (ID_99)
   Author(s): Yuan Man

2. **A concept of multicriteria stratification: a definition and solution** (ID_42)
   Author(s): Mikhail Orlov and Boris Mirkin

3. **Clustering Text Data Streams - A Tree Based Approach with Ternary Function and Ternary Feature Vector** (ID_144)
   Author(s): Phridvi Raj M.S.B, Gururao C.V and Chintakindi Srinivas

4. **A real-time updatable FPGA-based architecture for fast regular expression matching** (ID_125)
   Author(s): Qiu Tang, Lei Jiang, Xin-Xing Liu and Qiong Dai

5. **Sinkhole attack detection based on redundancy mechanism in wireless sensor networks** (ID_104)
   Author(s): Fangjiao Zhang and Lidong Zhai

6. **Text Categorization Based on Clustering Feature Section** (ID_62)
   Author(s): Xiaofei Zhou, Yue Hu and Li Guo

7. **Predicting Caesarean Section by Applying Nearest Neighbor Analysis** (ID_1)
   Author(s): Sunantha Sodsee
1. **The Optimal Application of Robotic-surgical Complexes (Systems) in Abdominal Surgery: the Logics and Methodology of Research** (ID_74)
   Author(s): Stanislav Berelavichus, Andrei Krieger and Nadezhda Titova

2. **A Novel Method in Extracranial Removal of Brain MR Images** (ID_176)
   Author(s): Jiahua Du, Gansen Zhao, Haolan Zhang, Jing He and Xiaoli Jin

3. **Construction of Clinical Pathway based on Similarity-based Mining in Hospital Information System** (ID_169)
   Author(s): Haruko Iwata, Shoji Hirano and Shusaku Tsumoto

4. **The Core Drugs Analysis Based on Social Network Analysis about Traditional Chinese Medicine Records Semantic Relation** (ID_53)
   Author(s): Yuekun Ma, Dezheng Zhang, Aziguli Wulamu and Yonghong Xie