11th Joint Conference on Knowledge-Based Software Engineering

JCKBSE 2014

Springer Communications in Computer and Information Science series Volume 466

CONFERENCE PROGRAM

17-20, SEPTEMBER, VOLGOGRAD, RUSSIA
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<td>Dr. Mikhail Roshchin, Siemens AG</td>
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<td>Session 15-3-9 Chair: Vadim Stefanuk</td>
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<td>Session 9-14 Chair: Adriaan Brebels</td>
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<td>Session 10 Chair: Michael Koniordos</td>
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<td>Session 1 Chair: Maxim Shcherbakov</td>
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<td>General Chair Speech</td>
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<td>Dmitriy Novikov, Corresponding Member, Russian Academy of Sciences.</td>
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<td>Dr. Adriaan Brebels, KULeuven, Porta Capena NV (Belgium)</td>
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Coffee-breaks 11.30-12.00 16.00-16.30 (20/09 16.30-17.00)

Video-conference sessions: | 18-Sep-14 | 10.00 | 13.30 | 18-Sep-14 | 15.15 | 16.00 |
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Conference fee includes coffee-breaks, lunches, conference tour and dinner.
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<td>15. Topical part: Program understanding, programming knowledge, modeling programs and programmers</td>
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<tr>
<td>1. Theory of Category Approach to Knowledge Based Programming. <strong>Alexander Zhozhikashvili, Vadim Stefanuk</strong></td>
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<td>2. An environment of programming of strategies on the base of knowledge. <strong>Valery Kuchuganov, Denis Kasimov</strong></td>
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<td>13. Topical part: Intelligent user interfaces and human-machine interaction</td>
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<tr>
<td>1. Support Method to Apply User Interface Guidelines to GUIs Using Guideline Templates. <strong>Junko Shirogane, Kazuya Sugiuchi, Hajime Iwata, Yoshiaki Fukazawa</strong></td>
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<td>2. Method of Software Operation Consistency for Tablet Devices by Sound Recognition. <strong>Hajime Iwata, Kazuhide Koyama</strong></td>
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<td>9. Topical part: Automating software design and synthesis</td>
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<td>Using an Automatic Collection Method to Identify Patterns during Design Activity. <strong>Jonatan Hernandez Hernandez, Hironori Washizaki, Yoshiaki Fukazawa</strong></td>
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<td>1. Iteration Multilevel Method for the Traveling Salesman Problem. <strong>Nikolay Starostin, Ilya Klyuev</strong></td>
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<td>2. Component-based approach to multi-agent system generation. <strong>Alla Kravets, Sergey Fomenkov, Andrey Kravets</strong></td>
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<td>14. Topical part: Lean Software Engineering</td>
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<td>2. Lean Mindset in Software Engineering: A Case Study in a Software House in Brazilian State of Santa Catarina. <strong>Mehran Misaghi, Ivan Bosnic</strong></td>
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<td>10. Topical part: Knowledge management for business processes, work-flows and enterprise modeling</td>
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<td>1. Knowledge management for business processes: Employees’ Recruitment and Human Resources’ Selection: A combined literature review and a Case Study. <strong>Miltiadis Chalikias, Grigoris Kyriakopoulos, Michalis Skordoulis, Michael Koniordos</strong></td>
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<td>2. Knowledge-Based Support For Innovative Design on basis of Energy-Information Method of Circuits. <strong>Viktoriya Zaripova, Irina Petrova</strong></td>
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<td>3. Solution on decision support in determining of repair actions using fuzzy logic and agent system. <strong>Alexey Kizim, Maxim Denisov, Svetlana Davydova, Valery Kamaev, Ann Matokhina</strong></td>
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<td>3. Argument Algebra: A Formalization of Assurance case Development. <strong>Shuichiro Yamamoto</strong></td>
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<td><strong>12. Topical part: Knowledge-based requirements engineering, domain analysis and modeling</strong></td>
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<td>1. A Consistency Check of Dependability Case (D-case) Produced from Data Flow Diagram (DFD). <strong>Nada Olayan, Shuichiro Yamamoto</strong></td>
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<td>2. The method of D-case development using HAZOP analysis on UML Model. <strong>Feng Ding, Shuichiro Yamamoto, Nada Abraham</strong></td>
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<td>3. A Study on the OR decomposition of goal-oriented analysis using GSN. <strong>Michitaro Okano, Takako Nakatani</strong></td>
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<td>4. Means of computer modeling of microwave devices and numerical methods as their base. <strong>Olga Astafurova, Nataliya Salnikova, Nikolai Lopukhov</strong></td>
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<td>5. Question-Answer Reflections in a Creation of an Experience Base for Conceptual Designing the Family of Software Intensive Systems. <strong>Petr Sosnin, Vladimir Maklaev</strong></td>
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<td>3. Models of supporting continuing education of specialists for high-tech sector. <strong>Tatiana Glotova, Michael Deev, Igor Krevskiy, Sergey Matukin, Elena Sheremeteva, Yuri Shlenov, Maria Shlenova</strong></td>
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<td>4. Students’ satisfaction form their educational context. Michalis Skordoulis, Miltiadis Chalikias, Michalis Koniorbod</td>
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<td>6. The calculation procedure of competence completeness. Sibikina Irina, Kvyatkovskaya Irina, Kosmacheva Irina, Yuliya Lezhnina</td>
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1. Topical part: Methodology and tools for knowledge discovery and data mining

1. Knowledge Discovery in the SCADA Databases Used for the Municipal Power Supply System. Valery Kamaev, Alexey Finogeev, Anton Finogeev, Sergiy Shevchenko

2. Architecture and self-learning concept of knowledge-based systems by use monitoring of Internet network. Evgeny Leonov, Vladimir Averchenkov, Andrey Averchenkov, Yury Kazakov, Yuriy Leonov

3. An experience of the optimization approach application to improve the urban passenger transport structure. Elena Krushel, Ilya Stepanchenko, Alexander Panfilov, Elena Berisheva

4. Cognitive techniques for knowledge. Elena Rusyaeva


3. Topical part: Knowledge technologies for semantic web and ontology engineering

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<tr>
<td>1. Knowledge Based Models and Software Tool for Learning Management in Open Learning Network. <strong>Anton Anikin</strong>, Marina Kultsova, Irina Zhukova, Natalia Sadounikova, Dmitry Litovkin</td>
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<td>2. Intelligent support of decision making in human resource management using case based reasoning and ontology. <strong>Irina Zhukova</strong>, Marina Kultsova, Mikhail Navrotskyi, Alexander Dvoryankin</td>
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<td>3. Topological structure for building ontology of energy-information method circuits. <strong>Yuliya Lezhnina</strong>, Tatyana Khomenko, Viktoriya Zaripova</td>
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<td>4. Intelligent decision support system for river floodplain management. <strong>Peter Wriggers</strong>, Marina Kultsova, Alexander Kapysh, Anton Kultsov, Irina Zhukova</td>
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<td>5. Semantic Collaborative Task Management Tool with Social Media Integration. <strong>Maria Dascalu</strong>, George Dragoi, Nicoleta-Cristina Stoescu, Alin Moldoveanu</td>
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**5. Topical part: Natural Language Processing, Image analysis and recognition**

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<tr>
<td>1. Automatic Extraction of the Translation of Anime Titles from Web Corpora Using CRF. <strong>Maiko Yamazaki</strong>, Hajime Morita, Kanako Komiya, Yoshiyuki Kotani</td>
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<td>2. Thematic clustering methods applied to news texts analysis. <strong>Anastasia Soloshenko</strong>, Yulia Orlova, Vladimir Rozaliev, Alla Zaboleeva-Zotova</td>
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<td>3. Method of Ontology-Based extraction of physical effect description from russian text. <strong>Dmitriy Korobkin</strong>, Sergey Fomenkov, Sergey Kolesnikov</td>
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<td>5. Super-Resolution approach to increasing the resolution of image. <strong>Vladislav Agafonov</strong></td>
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**4. Topical part: Knowledge-based methods and tools for testing, verification and validation, maintenance and evolution**

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<td>1. Evaluation of Flexibility to Changes Focusing on the Variable Structures in Legacy Software. <strong>Takanori Sasaki</strong>, Nobukazu Yoshioka, Yasuyuki Tahara, Akihiko Ohhsuga</td>
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<td>3. The adoption of machine learning techniques for software defect prediction: An initial industrial validation. <strong>Rakesh Rana, Mirosław Staron, Christian Berger, Jörgen Hansson, Martin Nilsson, Wilhelm Meding</strong></td>
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<td>4. Mixed Diagnostic Testing: Tasks with Formula Type Answer. <strong>Yury Kostyuk, Alex Fux, Irina Fux, Vladimir Razin, Anna Yankovskaya</strong></td>
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<tr>
<td>1. Forecasting model of small city depopulation processes and possibilities of their prevention. <strong>Elena Krushel, Ilya Stepanchenko, Alexander Panfilov, Ivan Haritonov, Elena Berisheva</strong></td>
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<td>2. Developing a model of multi-agent system of a process of a tech inspection and equipment repair. <strong>Vlad Panteleev, Alexey Kizim, Valery Kamaev, Olga Shabalina</strong></td>
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<td>3. Performance Analysis of alternative Open Source Parallel Computing approach to OpenMP on Multicore processors. <strong>Satyadhyan Chickerur, Dadi Mohan Krishna Rayudu, Srinidhi Hiriyannaiah, Olga Shabalina</strong></td>
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<td>2. Mobile security solution for enterprise network. <strong>Alla G. Kravets, Ngoc Duong Bui, Mohammed Al-Ashval</strong></td>
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<td>4. Development Of A Protocol To Ensure The Safety Of User Data In Social Networks, Based On The Backes Method. <strong>Le Xuan Quyen, Alla Kravets</strong></td>
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<td><strong>7. Topical part: Decision support methods for software engineering</strong></td>
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<td>1. Algorithms of ranking and classification of software systems elements. <strong>Kosmacheva Irina, Kvyatkovskaya Irina, Sibikina Irina, Yuliya Lezhnina</strong></td>
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<td>2. Fuzzy and hierarchical models for decision support in software systems implementations. <strong>Aleksandr Podvesovskii, Vladimir Averchenkov, Vyacheslav</strong></td>
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<td>Miroshnikov, Dmitriy Korostelyov</td>
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<td>3. Hybrid expert system development using computer-aided software</td>
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<td>engineering tools. Natalia Polkovenkova, Kureichik Victor</td>
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<td>Tudevtdagva, Tumurchudur Lkhham, Wolfram Hardt</td>
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<td>5. In Process Homogeneous object-binding structure for Preference zone</td>
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<td>based decision making. Daniel Reißner, Wolfram Hardt</td>
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<td>11. Topical part: Knowledge-based methods and applications in bio</td>
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<td>science, medicine and justice</td>
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<td>1. Evaluation of interaction level between potential drug and protein</td>
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<td>by hydrogen bond energy calculation. Ekaterina Tyulkina, Pavel</td>
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<td>Vassiliev, Timur Janovsky, Maxim Shcherbakov</td>
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<td>2. Sleep apnea detection based on dynamic neural networks. Dmitry</td>
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