

Analysis of Images, Social Networks, and Texts (AIST'2015)			
April 9 (Thursday)			
09:00	Registration		
09:30	Opening		
09:50	Michael Khachay	<i>Machine Learning Techniques and Approximation of NP-hard Combinatorial Problems</i>	
	Machine Learning (Michael Khachay)		Analysis of Images and Video (Valery G. Labunets)
10:20	Konstantin Vorontsov, Olexsandr Frei, Murat Apishev, Peter Romov and Marina Dudarenko	<i>BigARTM: Open Source Library for Regularized Multimodal Topic Modeling of Large Collections</i>	Andrey Sosnovsky <i>A Phase Unwrapping Algorithm For Interferometric Phase Images</i>
10:40	Oleg Ivanov and Sergey Bartunov	<i>Learning Representations in Directed Networks</i>	Andrey V. Sosnovsky and Viktor G. Kobemichenko <i>Interferometric Coherence Estimation Algorithms For Synthetic Aperture Radar Image Pairs</i>
11:00	Nataly Zhukova and Alexander Vodyaho	<i>Implementation of Agile Concepts in Recommender Systems for Data Processing and Analyses</i>	A.V. Borusyak, Yu.G Vasin <i>Development of an Entropy Coding Algorithm with the Use of Context-Based Modeling for Image Compression</i>
Industry Session			
11:20	Braslavski Pavel	<i>Questions Online: What, Where, and Why Should we Care?</i>	
11:50	Coffee Break		
12:10	Sergey Nikolenko	<i>Probabilistic rating systems</i>	
	Machine Learning (Konstantin Vorontsov)		Analysis of Images and Video (Andrey Savchenko)
12:50	Ilya Trofimov and Alexander Genkin	<i>Distributed Coordinate Descent for L1-regularized Logistic Regression</i>	Dmitrii Stepanov, Alexander Bakhshiev, Dmitrii Gromoshinskii, Nikolai Kirpan and Philip Gundelakh. <i>Determination of the relative position of space vehicles by detection and tracking of natural visual features with the existing TV-cameras</i>
13:10	Sheikh Sarwar, Mahamudul Hasan, Masum Billal and Dmitry Ignatov	<i>Similarity Aggregation for Collaborative Filtering</i>	Marina Chicheva and Ruslan Yuzkiv <i>The influence of block characteristics on the compression quality for hyperspectral data used transform coding method</i>
13:30	Vladimir Kryzhanovskiy and Magomed Malsagov	<i>Distorted High-Dimensional Binary Patterns Search by Scalar Neural Network Tree</i>	Sergey Porshnev, Vasily Zyuzin, Andrey Mukhtarov, Anastasia Bobkova and Vladimir Bobkov <i>The study of the mass center motion of the left ventricle area in echocardiographic videos</i>
14:00	Lunch		
Industry Session			
15:00	Polina Trofimova	<i>Центр информационных технологий: анализ и обработка данных при построении масштабных информационных систем</i>	
	Machine Learning (Konstantin Vorontsov)		Digital Signal Processing (Valery G. Labunets)
15:20	Valentina Kustikova, Dmitry Kruchinin, Evgeny Dolotov, Kirill Kornyakov and Pavel Druzhkov	<i>The Comparison of Deep Learning Libraries on the Problem of Handwritten Digit Classification</i>	Elena Zakharenko and Evgeniy Altman <i>Fast Full-Search Motion Estimation Method Based On Fast Fourier Transform Algorithm</i>
15:40	Anton Agafonov and Vladislav Myashnikov	<i>An algorithm for traffic flow parameters prediction with the use of adaptive elementary predictions combination</i>	Osthaier Ekaterina, Labunets Valery and Martyugin Stepan <i>Fast Infinitesimal Fourier Transform for Signal and Image Processing</i>
16:00	Valentina Kustikova and Pavel Druzhkov	<i>The Investigation of Deep Data Representations Based on Decision Tree Ensembles for Classification Problems</i>	Alexander Khamukhin and Vladimir Malj <i>An Improvement of the Hydroacoustic Narrow-Band Signal Detecting Based on Continuous Wavelet Transform</i>
16:20	Coffee Break		
	Collaborative Systems (Dmitry Ignatov)		Geoinformatics (Valery G. Labunets)
16:40	Falguni Roy, Sheikh Sarwar and Mahamudul Hasan Munna	<i>User Similarity Computation for Collaborative Filtering Using Dynamic Implicit Trust</i>	M.P. Osipov, Yu.G. Vasin <i>Methods Of Autonomous Indoor 3D Navigation</i>
17:00	Khaleda Akhtar and Sheikh Sarwar	<i>Analysis of the Adaptive Nature of Collaborative Filtering Techniques In Dynamic Environment</i>	T.Sh. Utesheva, Yu.G. Vasin <i>Specific Features of Computational Geometry Problems in the Geodetic Coordinate System as Exemplified by the Construction of the Equidistant Line</i>
17:20	Mohammad Erfan, Ailm Ul Gias, Sheikh Muhammad Sarwar and Kazi Sakib	<i>Approximating social ties based on call logs: Whom should we prioritize?</i>	
17:40	Poster Marathon		
19:00	Welcome Dinner @ SKB Kontur		

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April 10 (Friday)			
10:00	Alexander Panchenko	<i>Computational Lexical Semantics: Methods and Applications</i>	
Social Network Analysis (Alexander Semenov)		Natural Language Processing (Michail Dubov)	
10:50	Sofia Dokuka, Diliara Valeeva and Maria Yudkevich	<i>Formation and evolution mechanisms in online network of students: the Vkontakte case</i>	Artem Lukanin (Tutorial)
11:10	Alexandra Barysheva, Rostislav Yavorskiy and Mikhail Petrov	<i>Building Profiles of Blog Users Based on Comment Graph Analysis</i>	Text Processing with Finite State Transducers in Unix Please, take your laptops with installed Unix with you :)
11:20	Alexander Panchenko, Dmitry Babaev and Sergei Objedkov	<i>Large-Scale Parallel Matching of Social Network Profiles</i>	Unix can be downloaded here: http://www-igm.univ-miv.fr/~unitex/index.php?page=3&html=download2.html
11:40	Olga M. Zvereva and Dmitry B. Berg	<i>Autopoietic communication pattern identification in social and economic networks</i>	Mikhail Korobov <i>Morphological Analyzer and Generator for Russian and Ukrainian Languages</i>
12:00 Coffee Break			
Industry Session			
12:20	Nikita Kazeev	<i>О методах машинного обучения для решения задач большого адронного коллайдера</i>	
Social Network Analysis (Alexander Semenov)		Analysis of Images and Video (Sergey Nikolenko)	
13:00	Alexander Porshnev and Pavel Shashkin	<i>Am I really happy when I write "happy" in my post?</i>	Olesia Kushnir and Oleg Seredin <i>Shape Matching Based on Skeletonization and Alignment of Primitive Chains</i>
13:20	Andrey Murashov and Oleg Shmelev	<i>Text network analysis: What does strategic documentation tell us about regional integration?</i>	Irina Burova and Olga Bezrukavaya <i>Construction of images using minimal splines</i>
13:40			Evgeny Myasnikov <i>Nonlinear dimensionality reduction using combined approach to the decomposition of the feature space</i>
14:00 Lunch			
Industry Session			
15:00	Iosif Itkin	TBA	
Machine Learning (Sergey Nikolenko)		Analysis of Images and Video (Oleg Seredin)	
15:40	Sergey Axyonov, Kirill Kostin and Dmitry Lycom	<i>A Texture Fuzzy Classifier Based on Training Set Clustering by Self-Organizing Neural Network</i>	Svetlana Malysheva <i>Methods of Localization of Some Anthropometric Features of Face</i>
16:00	Aleksandr Bakhshiev and Filipp Gundelakh	<i>Mathematical model of the impulses transformation processes in natural neurons for biologically inspired control systems development</i>	Ilya Makarov, Mikhail Tokmakov and Lada Tokmakova <i>Imitation of human behavior in 3D-shooter game</i>
16:20	Xenia Naidenova and Vladimir Parkhomenko	<i>Context-Dependent Incremental Learning of Good Maximally Redundant Tests</i>	Artyom Makovetskii, Alexander Vokhmintsev, Vitaly Kober and Vladislav Kuznetsov <i>Frequency analysis of gradient descent method and accuracy of iterative image restoration</i>
16:40 Coffee Break			
Machine Learning (Michael Khachay)		Analysis of Images and Video (Marina Chicheva)	
17:00	The Long Nguyen, Thu Huong Nguyen and Aleksei Zhukov	<i>Studies of Anthropometrical Features using Machine Learning Approach</i>	Alexander Verichev And Victor Fedoseev <i>Robust Image Watermarking On Triangle Grid Of Feature Points</i>
17:20	Damir N. Gainanov	<i>An Algorithm of Inference of Monotone Boolean Functions Associated with Graphs</i>	Dmitry Tarasov and Alexander Sergeev <i>Fractal Approach to Font Assessment</i>
17:40 Poster Marathon			

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April 11 (Saturday)			
9:00	Valery G. Labunets		<i>Is the Human Brain a Quantum Computer?</i>
9:50	Andrey Savchenko		<i>Sequential Hierarchical Image Recognition based on the Pyramid Histograms of Oriented Gradients with Small Samples</i>
Natural Language Processing (Natalia Loukachevitch)		Analysis of Images and Video (Valery G. Labunets)	
10:30	Dmitry Ustalov	<i>TagBag: Annotating a Foreign Language Lexical Resource with Pictures</i>	V.V. Mizgulin, D.M. Stepanov, S.A. Kamentsev, R.M. Kadushnikov, E.D. Fedorov and O.A. Bunceva <i>Hybrid classification approach to decision support for endoscopy in gastrointestinal tract: part 1</i>
10:50	Olga Lyashevskaya and Egor Kashkin	<i>FrameBank: a database of Russian lexical constructions</i>	Inessa Gracheva, Andrey Kopylov and Olga Krasotkina <i>Fast global image denoising algorithm on the basis of nonstationary gamma-normal statistical model</i>
11:10	Artem Lukanin	<i>Normalization of Non-Standard Words with Finite State Transducers for Russian Speech Synthesis</i>	Andrey Kuznetsov and Vladislav Myasnikov <i>Remote sensing data verification using model-oriented descriptors</i>
11:30	Elena Bolshakova and Natalia Efremova (skype)	<i>A Heuristic Strategy for Extracting Terms from Scientific Texts</i>	Natalia Papulovskaya, Valentin Kashitsin and Kirill Breslavskiy <i>The Implementation Of Image Processing Algorithms On The Graphics Processing Units</i>
11:50 Coffee Break			
Industry Session			
12:10	Konstantin Obukhov	<i>Customer Experience Technologies</i>	
Natural Language Processing (Dmitry Ustalov)		Analysis of Images and Video (Maria Chicheva)	
12:50	Natalia Loukachevitch and Iliia Chetviorkin	<i>Supervised Approach to Finding the Most Frequent Senses in Russian</i>	Surya Prasath and Radhakrishnan Delhibabu <i>Color Image Restoration with Fuzzy Gaussian Mixture Model Driven Nonlocal Filter</i>
13:10	Ilya Kuznetsov	<i>Semantic Role Labeling for Russian language based on Russian FrameBank</i>	V.G. Labunets, F.S. Myasnikov and E. Ostheimer <i>Families of Heron and Symmetric Filters for Images Filtering</i>
Industry Section			
13:30	Dmitry Bugaychenko	<i>Does the size matter? Smart data at OK.ru</i>	
14:10 Lunch			
Industry Session			
15:00	Alexander Semenov	<i>Depression and suicide group members' profile analysis on VK.com</i>	
Knowledge Engineering (Dmitry Ustalov)		Analysis of Images and Video (Valery G. Labunets)	
15:40	Ilya Semerhanov and Dmitriy Mouromtsev	<i>Semi-automated integration of legacy systems using Linked Data</i>	Michael Khachay and Maxim Pasyukov <i>Theoretical approach to developing efficient algorithms of fingerprint enhancement</i>
16:00	Denis A. Nikiforov and Igor G. Lisikh	<i>An Approach to Multi-Domain Data Model Development Based on the Model-Driven Architecture and Ontologies</i>	Tatyana Fedorova, E Ostheimer, V.G. Labunets, Denis Komarov and V.V. Ganzha <i>Fréchet Filters for Color and Hyperspectral Images Filtering</i>
16:20	Aleksey Demidov	<i>Evolving ontologies in the aspect of handling temporal or changeable artefacts</i>	V.G. Labunets, A.A. Kurgansky, D.E. Komarov and E Ostheimer <i>New Bi-, Tri-, and Four-Lateral Filters for Color and Hyperspectral Images Filtering</i>
16:40 Coffee Break			
Industry Session			
17:00	Mikhail Dubov	<i>Text Analysis with Enhanced Annotated Suffix Trees: Algorithms and Implementation</i>	
17:30	Artem Kuznetsov	<i>Family matters: company relations extraction from Wikipedia</i>	
Knowledge Engineering (Dmitry Ustalov)		Analysis of Images and Video (Alexey Natekin)	
17:50	Vasily A. Sartakov	<i>Ontological representation of networks for IDS in cyber-physical systems</i>	Sergei M. Zraenko, Margarita A. Myrmina and Vladislav V. Ganzha <i>Develop Trained Algorithm Detection of Fires for Multispectral Systems Remote Monitoring</i>
18:10	Alexander Kozko	<i>Construction of adaptive educational forums based on intellectual analysis of structural and semantics features of messages</i>	Виктория Славных, Александр Сергеев и Виктор Филимонов <i>О методах исследования цифровых копий художественных произведений для определения их индивидуальных особенностей</i>
Industry Session			
18:30	Alexey Natekin	<i>ATM maintenance cost optimization with machine learning techniques</i>	
19:00 Best Papers Award & Closing			