**3rd Algorithm Workshop**

***provided by Huawei Russian R&D Center***

***and***

***Sank-Petersburg University for Aerospace Instrumentation***

Venue: Ambassador Hotel

Place: Sankt-Petersburg, Russia

Date: June 9, 2016

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| 9:30-9:45 | **Workshop Introduction***Vladimir Ivanov, Russian Huawei R&D Center* |
|  | **Panel Discussions** |
|  | ***Channel Coding and Spectrum Efficiency***Moderator: Alexey Maevsky | ***Machine Learning and Network Optimization***Moderator: Mikhail Pikhletsky | [***Medi***](http://www.digi-capital.com/news/2015/04/augmentedvirtual-reality-to-hit-150-billion-disrupting-mobile-by-2020/)***a Technology & Big Data***Moderator: Eugeny Vorovyev |
| 9:45-10:30 | **Alexey Maevsky****Igor Punkov****Vladimir Lyashev**Huawei RRC***PHY algorithms*** | **Mikhail Pikhletsky**Huawei RRC***Network Optimization Math Problems*** | **Eugeny Vorobyev**Huawei RRC***Media Algorithms*** |
| 10:30-11:15 | **Eugeny A. Krouk**Prof., Dr. Sc., Saint-Petersburg University of Aerospace Instrumentation**Andrey M. Turlikov** Doctor of Science, Head of Department of Information and Communication Systems, St. Petersburg State University of Aerospace Instrumentation***Usage of Error-Correcting Coding Methods for Efficiency Improvements in 5G Networks*** | **Danila Doroshin**Huawei RRC***Machine Learning Problems*** | **Alexander Slesarenko, Peter Krinov**Huawei RRC***Big Data*** |
| 11:15-11:30 | *Coffee Break* |
| 11:30-12:00 | **Sergey V. Bezzateev,**Prof., Dr. Sc.**Alexandra Afanasyeva**Department of Information Security Technologies,   Saint-Petersburg University of Aerospace Instrumentation***Private information retrieval protocol based on algebraic structures.*** | **Konstantin K. Simonchik**Speech Technology Center, Head of Department / Professor at National Research University of Information Technologies, Mechanics and Optics***Complex problems of biometric technologies and advanced solutions*** | **Alexey A. Karpov**Prof. Dr.Sc. , SPIIRAS***Multimodal human-computer interfaces created in SPIIRAS*** |
| 12:00-12:30 | **Peter  V. Trifonov,**Ass. Prof., PhD., Saint-Petersburg Politechnical University***Chained polar subcodes*** | **Sergey I. Nikolenko** Professor at Higher School of Economics Researcher at Steklov PDMI , St Petersburg***Survey on Deep Learning applications to NLP*** | **Konstantin F. Glasman,**Prof. Dr. Sc., Saint Petersburg State University of Film and Television***Multimodal Quality Assessment of Compressed Television Material for Mobile Devices*** |
| 12:30-13:00 | **Sergey V. Bezzateev,**Prof., Dr. Sc., Saint-Petersburg University of Aerospace Instrumentation**Konstantin Zhidanov**Saint-Petersburg University of Aerospace Instrumentation***Special class of codes for digital watermarking*** | **Andrey M. Turlikov** Doctor of Science, Head of Department of Information and Communication Systems, St. Petersburg State University of Aerospace Instrumentation**Anton I. Veselov**PhD, Department of Information and Communication Systems, St. Petersburg State University of Aerospace Instrumentation***Machine-learning-related research activities of SUAI visual data processing group.*** | **Innokenty Zhdanov**Department of Computer Photonics and Videomatics,ITMO University.***Image processing and recognition  research*** |
| 13:00-14:00 | *Lunch* |
| 14:00-14:30 | **Ivan Piatak****Alexander Korotkov** Prof. Dr., Head of Integrated Electronics DepartmentPeter the Great St. Petersburg Polytechnic University***Pipelined ADC with digital error calibration and correction*** | **Sergey I. Nikolenko** Professor at Higher School of Economics Researcher at Steklov PDMI***Buffer Management for Packets with Multiple Characteristics*** | **Andrey N. Terekhov**Prof.  Dr.Sc., Saint-Petersburg State University**Alexander  Pimenov**Ph.D,  Computer Vision Technology***The multi-reconstructed as a source of geometric data for simulated and augmented reality*** |
| 14:30-15:00 | **Elena B. Solovyeva**PhD, Saint-Petersburg Electrotechnical University, “LETI” head of department***"Mathematical Methods For Synthesis of Nonlinear Filters and Transformers*** | **Nikolai K. Krivulin** Doctor of physico-mathematical sciences, Associate Professor, Mathematics and Mechanics Department, St. Petersburg State University***Tropical optimization: new solutions to old problems*** | **Andrey A.Fillchenkov**ITMO, Head of Machine learning department***Machine learning: application of deep neural networks and automated model selection.*** |
| 15:00-15:30 | **Alexander B. Sergienko**PhD, Saint-Petersburg Electrotechnical University, “LETI”***Blind Estimation of Signal Parameters as a Source for Spectral and Energy Efficiency Increase*** | **Oleg N. Granichin** Prof. , Doctor of physico-mathematical sciences, Mathematics and Mechanics Department, St. Petersburg State University***Stochastic Programming and Multiagent Technologies*** | **Boris A. Novikov**ST. Petersburg  State University, Dept. of Analytical Information Systems***Deat Management and Data Analytics: Research and Potential*** |
| 15:30-15:45 | *Coffee break* |
| 15:45-17:45 | ***Round Table**** Warm-up questions
* Discussion
 | ***Round Table**** Warm-up questions
* Discussion
 | ***Round Table**** Warm-up questions
* Discussion
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| 17:45-18:00 | **Workshop Wrap-up and Closure** |
| 18:00-19:30 | *Dinner* |