

Exploration

lights the way forward

The relentless pursuit of innovation enlightens the intelligent world

# Machine Learning Workshop

17<sup>th</sup> - 19<sup>th</sup> Oct, 2019 | Sochi, Russia

A beacon under the night sky in Australia

## Technical Program for Day 1st, Oct 17th

Time		Min.
9:00 - 09:40	<b>Registration and Coffee</b>	40
9:40 - 10:00	<b>Welcome speech &amp; Introduction</b> Experts (Huawei)	20
10:00	<b>Huawei Challenges</b> Dr. Mazurenko Ivan, Dr. Filippov Alexander (Huawei)	40
10:40	<b>AI in Russia</b> Pivovarov Igor (OpenAI)	40
11:20	<b>Coffee Break</b>	30
11:50	<b>Offline facial image analysis and recognition on mobile devices</b> D.Sc. Savchenko Andrey (HSE)	40
12:30	<b>Variance reduction for dependent sequences with applications to MCMC</b> Naumov Alexey, Prof. Lab Director (HSE)	40
13:10	<b>Lunch</b>	60
14:10	<b>AI + IoT for eSports</b> Korotin Alexander (Skoltech)	40
14:50	<b>High Quality Video Generation</b> Buzun Nazar (Skoltech)	40
15:30	<b>Generative models</b> Korotin Alexander (Skoltech)	40
16:10	<b>Coffee Break</b>	20
16:30	<b>Geometrical coding of color/grayscale digital images</b> D.Sc. Nosovskiy Gleb (MSU)	40
17:10	<b>Alpha-complexes in topological data analysis and manifold learning</b> Dr. Pavutnitsky Fedor (SpbU)	40
17:50	<b>Instance segmentation using deep learning: from automated dataset preparation to applications for autonomous vehicle</b> Dr. Yudin Dmitry (MIPT)	40
18:30	<b>Dinner</b>	



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## Technical Program for Day 2nd, Oct 18th

Time		Min.
9:00	<b>Adaptive technologies for image processing and data mining</b> D.Sc. Lukyanitsa Andrei (MSU)	40
9:40	<b>Evolutionary algorithms for Neural Architecture Search (NAS)</b> Dr. Burtsev Mikhail (MIPT)	40
10:20	<b>Automating Algorithm Selection and Hyperparameter Search</b> Dr. Filchenkov Andrey (ITMO)	40
11:00	<b>Coffee Break</b>	30
11:30	<b>Mathematics of neural networks</b> D.Sc. Oseledets Ivan (Skoltech)	40
12:10	<b>Agile data analysis co-process for applied challenges. Success stories, instrumentation and open calls.</b> Dr. Ustyuzhanin Andrey (HSE)	40
12:50	<b>Lunch</b>	60
13:50	<b>Neural network that doubts. Bayesian neural networks for speech and text recognition</b> Bondarenko Ivan (NSU)	40
14:30	<b>Automatic Taxonomy Extraction from Texts: Current Approaches and Evaluations</b> D.Sc. Loukachevitch Natalia (MSU)	40
15:10	<b>Towards the Semantic Interpretation of User-Generated Texts about Drug Therapy</b> Dr. Tutubalina Elena (KPFU)	40
15:50	<b>Coffee Break</b>	20
16:10	<b>Computational humor: how to make computers laugh and joke</b> Dr. Braslavskii Pavel (HSE)	40
17:30	<b>Dinner</b>	

