Fourth Machine Learning in High Energy Physics Summer School 2018

Monday, 6 August 2018

<u>Lectures: Day 1 Lectures (Track 1)</u> - St Anne's College, Mary Ogilvie LT (09:00 - 10:30)

-Conveners: Maxim Borisyak

time [id] title	presenter
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09:00 [28] Track 1 Lecture. Overfitting. Model Selection. Figures of Merits. Linear	r BORISYAK, Maxim
Models. Regularization. Logistic Regression.	

Lectures: Day 1 Lectures (Track 1) - St Anne's College, Mary Ogilvie LT (13:30 - 15:00)

-Conveners: Nikita Kazeev

time	[id] title	presenter
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13:30 [30] Track 1 Lecture. Ensembling: Stacking, RandomForest, AdaBoost, Gradien	t KAZEEV, Nikita
Boosting.	

Tuesday, 7 August 2018

Lectures: Day 2 Lectures - St Anne's College, Mary Ogilvie LT (09:00 - 10:30)

-Conveners: Alexey Artemov

time [id] title	presenter	
09:00 [10] Lecture Introduction into Neural Network models, Multi-layered Percentron	ARTEMOV. Alexev	

[10] Lecture. Introduction into Neural Network models. Multi-layered Perceptron. Backpropagation.

Lectures: Day 2 Lectures - St Anne's College, Mary Ogilvie LT (13:30 - 15:00)

-Conveners: Alexey Artemov

time [id] title	presenter
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13:30 [33] Lecture. Intro into Deep learning. Convolutional Neural Network. ARTEMOV, Alexey

Thursday, 9 August 2018

Lectures: Day 4 Lectures - St Anne's College, Mary Ogilvie LT (09:00 - 10:30)

-Conveners: Nikita Kazeev

time [id] title	presenter	
09:00 [36] Lecture. Probability density estimation. Variational Autoencoder.	KAZEEV, Nikita	

<u>Lectures: Day 4 Lectures</u> - St Anne's College, Mary Ogilvie LT (13:30 - 15:00)

-Conveners: Nikita Kazeev

time [id] title	presenter
13:30 [45] Lecture. Generative Adversarial Networks.	KAZEEV, Nikita

Friday, 10 August 2018

<u>Lectures: Neural networks for Network structures (MPNN)</u> - St Anne's College, Mary Ogilvie LT (08:30 - 09:00)

-Conveners: Andrey Ustyuzhanin

Lectures: Day 5 Lectures - St Anne's College, Mary Ogilvie LT (09:00 - 10:30)

-Conveners: Maxim Borisyak

time	[id] title	presenter
09:00	[54] Lecture. Black-box optimization: Bayesian Optimization, Variational Optimization.	BORISYAK, Maxim

Lectures: Day 5 Lectures - St Anne's College, Mary Ogilvie LT (13:30 - 15:00)

-Conveners: Maxim Borisyak

time	[id] title	presenter
13:30	[38] Lecture. Adversarial Optimization (in general), Adversarial Variational Optimization.	BORISYAK, Maxim

Saturday, 11 August 2018

Lectures: Day 6 Lectures - St Anne's College, Mary Ogilvie LT (09:00 - 10:30)

-Conveners: Andrey Ustyuzhanin

time [id] title	presenter	
09:00 [40] Lecture. Domain Adaptation (reweighting, flatness, adversarial DA).	USTYUZHANIN, Andrey	

<u>Lectures: Day 6 Lectures.</u> - St Anne's College, Mary Ogilvie LT (13:30 - 15:00)

time [id] title	presenter
13:30 [56] Lecture. RNN: GRU + LSTM + Jet recognition.	