

Scientific workshop "Big Data Analytics" - Meeting #2028

Scientific seminar 2018-10-18 Planning the semester

2018-10-19 21:18 - Evgeniy Pavlovskiy

Status:	Closed	Start date:	2018-10-18
Priority:	Middle (Средний)	Due date:	2018-10-18
Assignee:	Evgeniy Pavlovskiy	% Done:	100%
Target version:		Spent time:	0.60 hour
Time:	18:25 - 18:40	Participants (Wiki):	Gusev, Zubkov, Poteshkin, Markelov, Sivaswamy, Sheng, Siyoto, Melnikov, Kumar, Munyaradzi, Chakrabarthy, Tsvaki, Razizadeh, Kozinets, Rogalskiy, Tagirova, Lee, Burgeot, Mulley, Pavlovskiy
Place:	5273	Participants:	

Description

25 minutes for one presentation.
Each student has to present a research.

Opened list of cutting-edge topics:

Topic	Link	Reporter	Scheduled
ResNet, ResNeXt	K. He, X. Zhang, S. Ren, and J. Sun. Deep Residual Learning for Image Recognition. In CVPR, 2016	Petr Gusev	1-nov
Dynamic Word Embeddings	https://arxiv.org/abs/1804.07983	Andrey Zubkov	25-oct
Capsule NN	Paper: https://arxiv.org/pdf/1710.09829 , presentation: https://cedar.buffalo.edu/~srihari/CSE676/9.12%20CapsuleNets.pdf	Klim Markelov	25-oct
MixUp	https://arxiv.org/pdf/1710.09412.pdf , (AdaMixUp in addition)	Vitaly Poteshkin	25-oct
Variational Autoencoders	https://arxiv.org/pdf/1312.6114.pdf	Anastasia Malysheva	1-nov
ArcFace		Sergeyev Artem	13-Dec
UMAP	McInnes, Leland and John Healy (2018). "UMAP: Uniform Manifold Approximation and Projection for Dimension Reduction". In: ArXiv e-prints. arXiv: 1802.03426 [stat.ML]	Burgeot Guillaume	-
Siamese NN		Roman Kozinets	29-nov
Quantum Semantics		Chakrabathy Anik	1-nov
MobileNN		Akilesh Sivaswamy	8-nov

Triplet Loss	https://arxiv.org/pdf/1503.03832.pdf	Mulley Loïc	-
Sobolev Training	https://arxiv.org/pdf/1706.04859	Luchkina Anastasia	3-dec
Rapids AI	http://rapids.ai/	Juan Fernando Pinzon Correa	15-nov
Attentioned based LSTM	https://www.aclweb.org/anthology/D16-1058	Munyaradzi Njera	15-nov
CycleGAN		Leyuan Sheng	3-dec
RNN for Speech Recognition	? https://www.cs.toronto.edu/~graves/icassp_2013.pdf	Yakovenko Olga	8-nov
Bayesian Conditional Density Filtering	? https://arxiv.org/abs/1401.3632	Lee Wonjae	8-nov
Deep Learning in Mobile and Wireless Networks: a Survey	https://arxiv.org/pdf/1803.04311.pdf	Ravi Kumar	15-nov
tSNE	Maaten L., Hinton G. Visualizing data using t-SNE //Journal of machine learning research. – 2008. – T. 9. – №. Nov. – C. 2579-2605. http://www.jmlr.org/papers/v9/vandermaaten08a.html	Razizadeh Omid	29-nov
Natural language based financial forecasting: a survey	Xing F. Z., Cambria E., Welsch R. E. Natural language based financial forecasting: a survey //Artificial Intelligence Review. – 2018. – T. 50. – №. 1. – C. 49-73.	Tsvaki Jetina	29-nov
Super-Resolution	Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network http://openaccess.thecvf.com/content_cvpr_2017/papers/Ledig_Photo-Realistic_Single_Image_CVPR_2017_paper.pdf	Siyoto Owen	29-nov
LIME (local interpretable model-agnostic explanations)	Ribeiro M. T., Singh S., Guestrin C. Why should i trust you?: Explaining the predictions of any classifier //Proceedings of the 22nd ACM SIGKDD international conference on knowledge discovery and data mining. –	Tagirova Elizaveta	3-dec

	ACM, 2016. – C. 1135-1144. https://arxiv.org/pdf/1602.04938v1.pdf		
XNOR-Net	https://arxiv.org/pdf/1603.05279.pdf	Potapova Polina	8-nov
Teacher student curriculum learning	Teacher student curriculum learning. https://arxiv.org/pdf/1707.00183.pdf	Melnikov Arsentiy	27-Dec
Prediction of enhancer-promoter interactions via natural language processing	https://link.springer.com/content/pdf/10.1186/s12864-018-4459-6.pdf	Fishman Daniil	3-Dec
GAN		Urynbassarov Mukhtar	15-nov
Minimizing finite sums with the stochastic average gradient	Schmidt, Mark. Minimizing finite sums with the stochastic average gradient / M. Schmidt, N. Le Roux, F. Bach // Mathematical Programming. — 2017. — Vol. 162(1). — P. 83–112. — URL: https://link.springer.com/article/10.1007/s10107-016-1030-6	Evgeniy Averyanov	13-Dec
	Fuzzy dual-factor time-series for stock index forecasting. https://www.sciencedirect.com/science/article/pii/S095741740700437X	Gyamerah Seth	20-Dec

These students still didn't selected a paper to report:

1st year students

1. **Rogalsky Ivan**
2. **Machet Julien**

2nd year students

1. **Kurochkin Evgeniy**

History

#1 - 2018-10-19 21:27 - Evgeniy Pavlovskiy

- Description updated

#2 - 2018-10-19 21:28 - Evgeniy Pavlovskiy

- Description updated

#3 - 2018-10-19 21:29 - Evgeniy Pavlovskiy

- Description updated

#4 - 2018-10-19 21:31 - Evgeniy Pavlovskiy

- Description updated

#5 - 2018-10-19 21:41 - Evgeniy Pavlovskiy

- Description updated

#6 - 2018-10-19 21:45 - Evgeniy Pavlovskiy

- Description updated

#7 - 2018-10-19 21:46 - Evgeniy Pavlovskiy

- Participants (Wiki) changed from Gusev, Zubkov, Poteshkin, Markelov, Siyoto, Melnikov, Kumar, Munyaradzi, Chakrabarthy, Tsvaki, Razizadeh, Kozinets, Rogalskiy, Tagirova, Lee, Burgeot, Mulley, Pavlovskiy to Gusev, Zubkov, Poteshkin, Markelov, Sivaswamy, Sheng, Siyoto, Melnikov, Kumar, Munyaradzi, Chakrabarthy, Tsvaki, Razizadeh, Kozinets, Rogalskiy, Tagirova, Lee, Burgeot, Mulley, Pavlovskiy

#8 - 2018-10-25 12:50 - Evgeniy Pavlovskiy

- Description updated

Added Munyaradzi Njera with the topic 'Attentioned based LSTM'

#9 - 2018-10-25 16:27 - Evgeniy Pavlovskiy

- Description updated

Added Leyuan and Akilesh with topics

#10 - 2018-10-25 16:47 - Evgeniy Pavlovskiy

- Description updated

#11 - 2018-10-25 16:52 - Evgeniy Pavlovskiy

- Description updated

#12 - 2018-10-25 16:52 - Evgeniy Pavlovskiy

- Description updated

#13 - 2018-10-25 17:13 - Evgeniy Pavlovskiy

- Description updated

#14 - 2018-10-25 19:02 - Evgeniy Pavlovskiy

- Description updated

#15 - 2018-10-25 19:08 - Evgeniy Pavlovskiy

- Description updated

#16 - 2018-10-25 19:09 - Evgeniy Pavlovskiy

- Description updated

#17 - 2018-10-25 19:19 - Evgeniy Pavlovskiy

- Description updated

#18 - 2018-10-25 19:26 - Evgeniy Pavlovskiy

- Description updated

#19 - 2018-10-26 09:47 - Evgeniy Pavlovskiy

- Description updated

Updated scheduled dates

#20 - 2018-10-26 12:22 - Evgeniy Pavlovskiy

- Description updated

#21 - 2018-10-26 12:23 - Evgeniy Pavlovskiy

- Description updated

#22 - 2018-10-27 09:36 - Evgeniy Pavlovskiy

- Description updated

#23 - 2018-10-27 09:42 - Evgeniy Pavlovskiy

- Description updated

#24 - 2018-10-27 16:18 - Evgeniy Pavlovskiy

- Description updated

#25 - 2018-10-30 21:34 - Evgeniy Pavlovskiy

- Description updated

#26 - 2018-11-01 18:41 - Evgeniy Pavlovskiy

- Description updated

#27 - 2018-11-11 22:52 - Evgeniy Pavlovskiy

- Description updated

#28 - 2018-11-22 13:49 - Evgeniy Pavlovskiy

- Description updated

Added Evgeniy Averyanov

#29 - 2018-11-22 13:50 - Evgeniy Pavlovskiy

- Description updated

#30 - 2018-11-22 13:52 - Evgeniy Pavlovskiy

- Description updated

#31 - 2018-11-22 14:37 - Evgeniy Pavlovskiy

- Description updated

#32 - 2018-12-25 18:11 - Evgeniy Pavlovskiy

- Description updated

Update Melnikov Arsentiy

#33 - 2019-03-26 13:31 - Evgeniy Pavlovskiy

- *Status changed from New to Resolved*

- *% Done changed from 0 to 80*

#34 - 2019-03-26 13:31 - Evgeniy Pavlovskiy

- *Status changed from Resolved to Closed*

- *% Done changed from 80 to 100*