

Branch: master ▾







































deep-devops / reports /

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History

 giangzuzana Update README.md	Latest commit 892b21e 25 days ago	
..		
 .gitkeep	results --> reports	3 months ago
 20181015-lstm_6m_1h_1h.png	results --> reports	3 months ago
 20181019-GRU-6month-1h-10m.png	results --> reports	3 months ago
 20181019-LSTM-6month-1h-10m.png	results --> reports	3 months ago
 20181026-lstm-bez-delta-3mesiace.png	results --> reports	3 months ago
 20181026-lstm-bez-delta.png	results --> reports	3 months ago
 20190326_141124-eval.tsv	results --> reports	3 months ago
 20190327_033636-eval.tsv	results --> reports	3 months ago
 20190327_210357-eval_delta.tsv	results --> reports	3 months ago
 20190327_210357-eval_delta_true.tsv	results --> reports	3 months ago
 20190328_134237-eval.tsv	results --> reports	3 months ago
 20190328_134237-eval_delta_false.tsv	results --> reports	3 months ago
 20190329_093201-eval_sequence_len.tsv	results --> reports	3 months ago
 20190329_151339-eval_steps_ahead.tsv	results --> reports	3 months ago
 20190330_085413-eval_sequence_len.tsv	results --> reports	3 months ago
 20190331_102622-eval_delta_true.tsv	results --> reports	3 months ago
 20190401_084101-eval_CPU_delta_true.tsv	results --> reports	3 months ago
 20190401_163044-eval_CPU_delta_false.tsv	results --> reports	3 months ago
 20190403_152005-eval_delta_false.tsv	results --> reports	3 months ago
 20190407_072514-eval_delta_true.tsv	result	3 months ago
 20190528_select_features_adf.tsv	select feature - code cleaning	2 months ago
 20190528_select_features_mir_n3.tsv	MIR knn	2 months ago
 20190528_select_features_mir_n5.tsv	MIR knn	2 months ago
 20190528_select_features_mir_n7.tsv	MIR knn	2 months ago
 20190529_130739-eval-ssh_in-delta_false.tsv	ssh_in: test models	2 months ago
 20190530_083837-eval-ssh_in-delta_true.tsv	results	last month
 20190602_123100-eval-payload-delta_true.tsv	results	last month
 20190603_103015-eval-payload-delta_false.tsv	results	last month
 20190606_154908-eval-14-delta_false.tsv	14 features	last month
 20190607_123752-eval-14-delta_true.tsv	14 features	last month
 20190612_084925-eval_batch_norm.tsv	stacked LSTM	28 days ago
 20190617_125812-eval_stackedLSTM.tsv	stacked LSTM	28 days ago
 20190618_140520-eval_autoencoder.tsv	results: autoencoder	28 days ago
 20190618_152323-eval_cudnn_tcn.tsv	speedup by cudnn, temporal TCN	27 days ago
 20190619_094702-eval_attention_stackedtcn.tsv	attention model	27 days ago
 20190619_144152-eval.tsv	11 models	26 days ago
 20190620_083509-eval_1y_train.tsv	1y data for train, 1m data for test	25 days ago
 README.md	Update README.md	25 days ago



Header (separator '\t')

- model_type, mse, mae, <-- evaluations with data from models
- SMAPE(train), f1, f2, test, f1, f2, <-- evaluations with real data (after back-transformation)
- R2(train), f1, f2, test, f1, f2,
- COSINE(train), f1, f2, test, f1, f2,
- TIMER, t <-- runtime of 1 cycle: train-test

Default params

- num_epochs = 50; GPU venv

Datapools (201905) w01h-s10m with more features

- 8 features in one model: conn_in_count_uid, conn_out_count_uid, dns_in_count_uid, dns_in_distinct_query, sip_in_count_uid, http_in_count_uid, ssh_in_count_uid, ssl_in_count_uid

data_train = 20180414-20190413; data_test = 20190414-20190514; sequence_len = 12

- 14 features in one model: conn_in_sum_orig_bytes, conn_in_sum_resp_bytes, conn_in_count_uid, conn_out_sum_orig_bytes, conn_out_sum_resp_bytes, conn_out_count_uid, dns_in_count_uid, dns_in_distinct_query, dns_in_RD_true, dns_out_count_uid, sip_in_count_uid, http_in_count_uid, ssh_in_count_uid, ssl_in_count_uid

data_train = 20180414-20190413; data_test = 20190414-20190514; sequence_len = 12

- quite stochastic results, average test of 10x is needed
 - [20190620_083509-eval_1y_train.tsv](#)

data_train = 20180501-20181231; data_test = 20190101-20190430; sequence_len = 12

- delta=True is better, more stable results
 - [20190606_154908-eval-14-delta_false.tsv](#)
 - [20190607_123752-eval-14-delta_true.tsv](#)
- conn|in_sum_orig_bytes|in_sum_resp_bytes
 - [20190602_123100-eval-payload-delta_true.tsv](#)
 - [20190603_103015-eval-payload-delta_false.tsv](#)
- ssh|ssh_in
 - [20190530_083837-eval-ssh_in-delta_true.tsv](#)
 - [20190529_130739-eval-ssh_in-delta_false.tsv](#)
- batch_normalization: no effects
 - [20190612_084925-eval_batch_norm.tsv](#)
- stacked LSTM (3 stacks): long runtime, improved results like birectLSTM a seq2seqLSTM
 - [20190617_125812-eval_stackedLSTM.tsv](#)
- autoencoder MLP: quite good
 - [20190618_140520-eval_autoencoder.tsv](#)
- temporal TCN: quite good; speed-up all by cuDNN
 - [20190618_152323-eval_cudnn_tcn.tsv](#)
- attention LSTM: similar like bidirect or stacked
 - [20190619_094702-eval_attention_stackedtcn.tsv](#)
- 11 models: 'MLP', 'autoencoderMLP', 'LSTM', 'GRU', 'bidirectLSTM', 'seq2seqLSTM', 'stackedLSTM', 'attentionLSTM', 'Conv1D', 'TCN', 'stackedTCN'. Stochastic results --> need average of n-test
 - [20190619_144152-eval.tsv](#)

Estimation MI for continuous vars 20190528 MIR n=3 n=5 n=7

- MIR values amongs features are quite small --> separate models are better

- Augmented Dickey-Fuller Test (ADF) passed for all features (OK)
- test linearity passed for all features (OK)