LogAnomaly (BGL)使用说明

需要的环境: python3, keras

模板训练: LogAnomaly/ft-tree/

python -u ft_tree.py -data_path ../data/bgl.log -template_path ../middle/bgl_log.template -fre_word_path ../middle/bgl_log.fre

模板匹配: LogAnomaly/ft-tree/

python -u <u>matchTemplate.py</u> -template_path ../middle/bgl_log.template - fre_word_path ../middle/bgl_log.fre -log_path ../data/bgl.log -out_seq_path ../data/bgl_log.seq -match_model 1

获取bgl的正常日志序列: LogAnomaly/data/

python removeAnomaly.py -input_seq bgl_log.seq -input_label bgl.label

基于模板搜索近义词和反义词: LogAnomaly/template2Vector/src/preprocess/python wordnet_process_mwb.py -data_dir ../../middle/ - template_file bgl_log.template -syn_file bgl_log.syn -ant_file bgl_log.ant

转换日志模板为词向量训练格式: LogAnomaly//middle/输入文件一定要是单行!!!

python changeTemplateFormat.py -input bgl_log.template

日志模板学习词向量: LogAnomaly/template2Vector/src/ (先make一下!!!)

./Ircwe -train ../../middle/bgl_log.template_for_training -synonym ../../middle/bgl_log.syn -antonym ../../middle/bgl_log.ant -output ../../model/bgl_log.model -save-vocab ../../middle/bgl_log.vector_vocab -belta-rel 0.8 - alpha-rel 0.01 -belta-syn 0.4 -alpha-syn 0.2 -alpha-ant 0.3 -size 32 -min-count 1

模板转向量: LogAnomaly/template2Vector/src/

python template2Vec.py -template_file ../../middle/bgl_log.template - word_model ../../model/bgl_log.model - template_vector_file ../../model/bgl_log.template_vector -dimension 32

模型训练: LogAnomaly/LogAnomal_BGL/

python -u train_vector_2LSTM.py -train_file ../data/bgl_log.seq_normal -seq_length 10 -model_dir ../weights/vector_matrix/ -onehot 1 - template2Vec_file ../model/bgl_log.template_vector -template_file ../middle/bgl_log.template -count_matrix 1

异常检测: LogAnomaly/LogAnomal BGL/

python -u detect_vector_2LSTM.py -test_file ../data/bgl_log.seq -seq_length 10 - model_dir ../weights/vector_matrix/ -n_candidates 15 -windows_size 3 -step_size 1 - onehot 1 -result_file ../results/bgl_log_precision_recall.txt -label_file ../data/bgl.label - template2Vec_file ../model/bgl_log.template_vector -template_file ../middle/bgl_log.template -count_matrix 1