Bachelor Thesis Documentation

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Bachelor Thesis

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ONE

BACHELORARBEIT

1.1 src package

1.1.1 Subpackages

src.clustering package

Submodules

src.clustering.cluster_mappings module

Script to cluster mapping vectors created with src.mapping.mapthreading or rc.mapping.map_vectors.py.

src.clustering.cluster_mappings.aggregate_cluster (points, labels)

Arranges all clusters in a list, where a sublist with all points at index i corresponds with the custer with label i.

Parameters

- points (list) List of datapoints
- labels (list) List of unique cluster labels

Returns list of lists of datapoints belonging to the i-th cluster

Return type list

```
src.clustering.cluster_mappings.alt (func)
```

Prepends the local time to the output of a function.

Parameters func (function) – Function the local time should be prepended to.

```
src.clustering.cluster_mappings. cluster_mappings (vector_inpath, do_pca=False, target_dim=100, indices_inpath=None, epsilon=2.625, min s=20)
```

Cluster mapping vectors created with src.mapping.mapthreading or rc.mapping.map_vectors.py. Because just reading about the number of clusters and their sizes, there's an option to resolve the indices of the vectors in the cluster to their original word pairs.

Parameters

• **vector_inpath** (*str*) – Path to vector file. File should have the following format (separated by spaces): <index of original vector #1> <index of original vector #2> <Dimension 1> ... <Dimension n>

- do_pca (bool) Flag to indicate whether PCA should be executed before clustering to reduce amount of
- computation. -
- target_dim (int) Number of dimensions vectors should be shrunk to in case PCA is performed.
- **indices_inpath** (*str*) Path to file with the indices given to words. The file should have the following format: <index of word> <word> (separated by tab)
- epsilon (float) Radius of circle DBSCAN uses to look for other data points.
- min_s (int) Minimum number of points in radius epsilon DBSCAN needs to declare a point a core object.

```
src.clustering.cluster_mappings.get_cluster_size ( labels)
Calculate the size of every cluster found by DBSCAN.
```

Parameters labels (list) – List of cluster IDs assigned to every data point.

Returns Dictionary of cluster sizes with cluster id as key and cluster size as value.

Return type defaultdict

Returns argparser - ArgumentParser object with command line arguments for this script.

Return type argparse.ArgumentParser

```
src.clustering.cluster_mappings. load_indices (indices_inpath)
   Load word indices from a file. The file should have the following format: <index of word> <word> (separated by tab)
```

Parameters indices_inpath (str) - Path to index file.

```
src.clustering.cluster_mappings.load_mappings_from_model ( mapping_inpath)
    Load mapping vectors from file.
```

Parameters mapping_inpath – Path mapping vector file.

Returns A tuple of a list of word index pairs and a dictionary (defaultdict) with index pair tuple as key and mapping vector (as numpy.array) as value.

Return type tuple

```
src.clustering.cluster_mappings.main()
```

This is the main method. It uses the parse command line arguments to pick the right function to execute.

```
src.clustering.cluster_mappings. train_clustering_parameters ( vector_inpath) Functions that tries to figure out the optimal clustering parameters in regard to DBSCAN's epsilon, min_samples and p.
```

Parameters vector_inpath (str) – Path to vector file. File has to have the following format (separated by spaces): <index of original vector #1> <index of original vector #2> <Dimension 1> ... <Dimension n>

src.eval package

Submodules

src.eval.analogy module

```
class src.eval.analogy. AnalogyMasterThread (vector_inpath, analogy_path, per_section, log-
                                                path, n)
    Bases: threading. Thread
    prepare ( )
    start threads ()
class src.eval.analogy. AnalogyWorkerThread ( worker_id, model)
    Bases: threading. Thread
    find_most_similar_cosmul ( a, a_{-}, b)
    run ()
src.eval.analogy.analogy_eval (vector_inpath,
                                                  analogy_path,
                                                                per_section=False,
                                                                                  log-
                                    path=None)
src.eval.analogy_analogy_eval_parallel (vector_inpath, analogy_path, per_section=False,
                                              logpath=None, threads=1)
src.eval.analogy. output ( message, logpath=None)
src.eval.analogy.read_analogies (analogy_path, per_section=False)
src.eval.analogy. read_analogies_for_parallel (analogy_path, per_section=False)
src.eval.analogy.rreplace (s, old, new, occurrence)
src.eval.concentration module
src.eval.concentration. alt (func)
src.eval.concentration.calculate_concentration (model, procs, logpath=None, vec-
                                                       tor_inpath='')
src.eval.concentration.calculate_concentrations (vectors_inpath,
                                                                                procs,
                                                        max_n_vectors, logpath=None)
src.eval.concentration.calculate_loss_of_precision (vector_inpath, procs, sizes, log-
                                                            path=None)
src.eval.concentration.chunks(l,n)
src.eval.concentration.chunks2 (lst, n)
src.eval.concentration.init_pool_for_deviances (pool_args)
src.eval.concentration.init_pool_for_distances (pool_args)
src.eval.concentration.load_vectors_from_model (vector_inpath, max_n=None, log-
                                                       path=None, indices=False)
src.eval.concentration. load_vectors_from_model_parallel (vector_inpath,
                                                                                procs,
                                                                  logpath=None)
```

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```
src.eval.concentration.output (message, logpath=None)
src.eval.concentration. rreplace (s, old, new, occurrence)
src.eval.concept groups module
src.eval.concept_groups.main()
src.eval.concept_groups. sampleRelations (inpath, outpath, n, sample_size, freq_constraint)
src.eval.concept_groups. sample_part ( relation_pairs, coin_flip, sample_size)
src.eval.concept_groups.take_sample_from_list (samplelist, n)
src.eval.eval_vectors module
src.eval.eval_vectors.apply_on_input (func, sets, inpath, *args)
src.eval.eval_vectors. find_nearest_neighbors (vector_inpath, max, wordlist)
src.eval.eval_vectors.init_argparser()
src.eval.eval_vectors.main()
src.eval.eval_vectors. opt_callback ( option, opt, value, parser)
src.eval.eval_vectors. output ( message, logpath=None)
src.eval.eval_vectors.plot (data, max, dimensions, show_plot=False, display_names=False)
src.eval.eval_vectors.plot_distance_distribution ( data, max, show_plot=False)
src.eval.eval_vectors. rreplace (s, old, new, occurrence)
src.eval.word_similarity module
class src.eval.word_similarity. WordSimMasterThread ( n, vector_inpath, wordpair_inpath,
                                                          logpath, format)
    Bases: threading. Thread
    prepare ( )
    remove_unknowns ()
    start_threads ( )
class src.eval.word_similarity. WordSimWorkerThread (worker_id, pair_queue, model, y)
    Bases: threading. Thread
    run ()
src.eval.word_similarity.capitalize ( word)
src.eval.word_similarity. evaluate_wordpair_sims (x, y, number_of_pairs)
src.eval.word_similarity.output (message, logpath=None)
src.eval.word_similarity.parallel_word_sim_eval (vector_inpath, wordpair_path, log-
                                                        path, format='google', threads=1)
src.eval.word_similarity. read_wordpairs (wordpair_path, format='google')
src.eval.word_similarity.remove_unknowns (x, y)
```

```
src.eval.word_similarity. rreplace ( s, old, new, occurrence)
src.eval.word_similarity. word_sim_eval ( vector_inpath, wordpair_path, logpath, for-
mat='google')
```

src.guesser package

Submodules

src.guesser.svm_guesser module

```
src.guesser.svm_guesser.convert_data (sets_path, tql_inpath, vector_inpath)
src.quesser.svm quesser.create corrupt triples (grouped pairs, entities)
src.guesser.svm_guesser.dump_relation_vectors (relation_vectors, outpath)
src.guesser.svm_guesser.evaluate (model, grouped_test, relation_vectors, entities)
src.quesser.svm_quesser.extract_data_from_uri (uri)
src.quesser.svm_quesser.get_rank (target, ranks)
src.quesser.svm_quesser.init_argparser()
     Initialize all arguments for an ArgumentParser object and return it.
     @returns {ArgumentParser} argument parser object
src.quesser.svm quesser.load relation vectors (inpath)
src.guesser.svm_guesser.load_vectors (vector_inpath)
     @param vector_inpath: Path to word2vec model file
src.guesser.svm_guesser.main ()
src.quesser.svm quesser.prepare training (sets path, vector inpath)
src.guesser.svm_guesser.rank_entities (reference, solution, model, entities)
src.guesser.svm_guesser.read_freebase_data ( sets_path)
src.guesser.svm_guesser.read_freebase_file (fb_inpath)
src.quesser.svm_quesser.read_tql_file (tql_inpath)
src.quesser.svm_quesser.test_coverage (triples, model)
     Test the coverage of a dataset consisting of freebase triples on word2vec word embeddings. For every triple (h,
     1, t), the entities h and t are taken and used for look up in the word2vec model.
     @param triples: list of 3-tuples (freebase triples) @param model: gensim word2vec model
src.guesser.svm_guesser.train (model, grouped_train, grouped_corrupted, lossf, relation_types,
                                      epochs=1000, learning rate=0.01, margin=1)
src.guesser.svm_guesser.transform_triples (triples, relation_types, entities)
src.guesser.svm_guesser.write_data (triples, found_entities, outpath)
```

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src.mapping package

Submodules

src.mapping.map_vectors module

```
src.mapping.map_vectors.alt (func)
src.mapping.map_vectors.construct_nearest_neighbour_graph (vector_inpath)
src.mapping.map_vectors. dump_defaultdict ( ddict, outpath, pickled=True)
src.mapping.map_vectors. dump_vector_defaultdict ( ddict, outpath, pickled=True)
src.mapping.map_vectors.filter_duplicate_vectors (vectors_indir, vector_outpath)
src.mapping.map vectors. filter duplicate vectors parallelized (vectors indir,
                                                                     vector_outpath,
                                                                     procs=1)
src.mapping.map_vectors. hash_tuple (t)
src.mapping.map_vectors.index_vectors (vector_inpath, vector_outpath, indexing_outpath,
src.mapping.map_vectors.init_argparse()
src.mapping.map_vectors.init_pool (args)
src.mapping.map_vectors.load_vectors_from_model (vector_inpath, max_n=None, log-
                                                      path=None)
src.mapping.map_vectors.main()
src.mapping.map_vectors. output ( message, logpath=None)
src.mapping.map_vectors. read_subset (subset_inpath)
src.mapping.map_vectors. rreplace ( s, old, new, occurrence)
src.mapping.mapping operations module
src.mapping.mapping_operations. cosine_similarity (v1, v2)
src.mapping.mapping_operations. distance (v1, v2)
src.mapping.mapping_operations. euclidian_distance1 (vI, v2)
src.mapping.mapping_operations. euclidian_distance2 (vI, v2)
src.mapping.mapping_operations.manhattan_distance (vI, v2)
src.mapping.mapping_operations. soft_cosine_similarity (v1, v2)
```

src.mapping.mapthreading module

```
class src.mapping.mapthreading. MappingMasterThread ( n, vector_inpath, vector_outpath,
                                                          features,
                                                                      ids_inpath,
                                                          dices_inpath)
    Bases: threading. Thread
    prepare ( )
    read_ids_file ( ids_inpath)
    start_threads ( )
class src.mapping.mapthreading. MappingWorkerThread (worker_id,
                                                                       vector_dict,
                                                                                    vec-
                                                          tor_queue, vector_outpath, fea-
                                                          tures, occurrences, indices)
    Bases: threading. Thread
    concat (v1, v2)
    cosine\_similarity(v1, v2)
    distance (v1, v2)
    euclidian distance1 (v1, v2)
    euclidian_distance2 (v1, v2)
    hash_indices ( i1, i2)
    manhattan_distance (v1, v2)
    run ()
    spray ( v1, v2, cooc)
class src.mapping.mapthreading. VectorDict
    Bases: object
    add_skippable (index)
    add_vector ( index, vector)
    get_keys ( )
    get_vector ( index)
    skippable (index_hash)
src.mapping.mapthreading.alt (func)
src.mapping.mapthreading.init_argparse()
src.mapping.mapthreading.main ()
```

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src.prep package

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src.prep.corpus package

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src.prep.corpus.convert_to_plain module

```
src.prep.corpus.convert_to_plain.alt (func)
src.prep.corpus.convert_to_plain.contains_tag (line)
src.prep.corpus.convert_to_plain.convert_decow_to_plain ( decow_dir,
                                                                            out_dir,
                                                               log_path,
                                                                         merge_nes,
                                                               log_interval)
src.prep.corpus.convert_to_plain. convert_part (argstuple)
src.prep.corpus.convert_to_plain.convert_part_merging (argstuple)
src.prep.corpus.convert_to_plain.extract_named_entity (line)
src.prep.corpus.convert_to_plain.extract_sentence_id (tag)
src.prep.corpus.convert_to_plain.get_file_number (filename)
src.prep.corpus.convert_to_plain.log_time (logpath='log.txt', interval=5)
src.prep.corpus.convert_to_plain. log_time_mp (logpath='log.txt', interval=5)
src.prep.corpus.convert_to_plain.main()
src.prep.corpus.extract conll module
src.prep.corpus.extract_conll.extract_conll (inpath, outpath, column)
    Extract information out of CoNLL files.
        Parameters inpath (str) – Path to input file.
src.prep.corpus.extract_conll.init_argparse()
src.prep.corpus.extract_conll.main()
src.prep.corpus.mapper module
src.prep.corpus.prepare_corpus module
```

```
src.prep.corpus.prepare corpus.construct yaml str (self, node)
    Docstring for git testing purposes.
src.prep.corpus.prepare_corpus.get_file_number (filename)
src.prep.corpus.prepare_corpus.init_pool (args)
```

```
src.prep.corpus.prepare_corpus.main()
src.prep.corpus.prepare_corpus.prepare ( ne_inpath)
src.prep.corpus.prepare_corpus.process_corpora (nesi, corpus_dir, out_dir, log_dir,
                                                       logging_interval_meta=10,
                                                       ging interval processing=10)
src.prep.corpus.prepare_corpus.process_corpus (argstuple)
src.prep.corpus.quick_and_dirty module
src.prep.corpus.quick_and_dirty. clean_file (inpath, outpath)
src.prep.corpus.reducer module
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src.prep.misc package
Submodules
src.prep.misc.decorators module
src.prep.misc.decorators.alt (func)
src.prep.misc.decorators. log_time (logpath='log.txt', interval=5)
src.prep.misc.decorators.log_time_mp (logpath='log.txt', interval=5)
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src.prep.nes package
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src.prep.nes.extractNE module
src.prep.nes.extractNE.contains_tag ( line)
```

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src.prep.nes.extractNE.extract_named_entity (line)
src.prep.nes.extractNE.extract_sentence_id (tag)

src.prep.nes.extractNE.process (inpath, outpath, logpath)

src.prep.nes.extractNE.print_dict_in_file (dictionary, out_path)
src.prep.nes.extractNE.print_ids_in_file (dictionary, out_path)
src.prep.nes.extractNE.print_list_in_file (ne_list, out_path)

src.prep.nes.extractNE.main ()

src.prep.nes.merge module

```
src.prep.nes.merge. dump_ids_dict (idsdict, outpath)
src.prep.nes.merge. freqWorker (inpath)
src.prep.nes.merge.idWorker (inpath)
src.prep.nes.merge. load_ids_dict (inpath)
src.prep.nes.merge. main ()
src.prep.nes.merge. mergeDicts ( dicttuple)
src.prep.nes.merge.merge_frequency_files (infiles_path, outpath, logpath)
src.prep.nes.merge.merge id dicts ( dicttuple)
src.prep.nes.merge id files (infiles path, outpath, logpath, yaml=False)
src.prep.nes.merge.print_key_lengths (dictionary)
src.prep.nes.merge. rl (infile)
src.prep.nes.mwe module
src.prep.nes.mwe.create_mwe_pickle (inpath, outpath, logpath='./mwes.log')
src.prep.nes.mwe.create_mwe_pickle2 (inpath, outpath, logpath='./mwes.log')
src.prep.nes.mwe. dump_dict_pickle ( d, outpath)
src.prep.nes.mwe.dump_dict_pickle2 ( d, outpath)
src.prep.nes.mwe. load_dict_pickle (inpath)
src.prep.nes.mwe. load dict pickle2 (inpath)
src.prep.nes.mwe. main ()
src.prep.nes.mwe. replace_mwes ( mwe_path, corpus_path, out_path)
src.prep.nes.statistics module
src.prep.nes.statistics. calculate_occurrences (freqpath, relations_path)
src.prep.nes.statistics.main ()
```

Module contents

src.prep.relations package

Submodules

src.prep.relations.relations module

```
get_id()
src.prep.relations.relations.fetch_name (id, lang='en')
src.prep.relations.relations. fetch_relation_triples_of_file (inpath,
                                                                               out-
                                                                   path,
                                                                            logpath,
                                                                   lang='en')
src.prep.relations.relations. format_fbid (id)
src.prep.relations.relations.freebase_request ( query, api_key, service_url)
src.prep.relations.relations.main()
src.prep.relations.relations. read_credentials ()
src.prep.relations.relations. rl (infile)
src.prep.relations.relations.translate_name (name, lang='en')
src.prep.relations.relations.translate_word2vec_question_phrases (inpath,
                                                                         outpath,
                                                                         lang='en')
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src.trans_e package
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src.trans e.add inverse relations module
src.trans_e.add_inverse_relations. add_inverse_relations ( relations_inpath,
                                                                                re-
                                                               lations outpath,
                                                               inverse_relations,
                                                               known_relations)
src.trans_e.add_inverse_relations.init_argparse()
src.trans_e.add_inverse_relations.main()
src.trans_e.add_inverse_relations.read_file_with_inverse_relations (inverse_inpath)
src.trans_e.clean_relations module
src.trans_e.contains_entities module
src.trans_e.contains_entities. contains_entities ( entities1, entities2)
src.trans_e.contains_entities. create_new_dataset (entities1, dataset, outpath)
src.trans_e.contains_entities.extract_entities_from_relation_dataset ( dataset_inpath)
src.trans_e.contains_entities.extract_entities_from_tql_file (tql_path)
src.trans_e.contains_entities. format_fbid (id)
src.trans_e.contains_entities.init_argparse()
```

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```
src.trans_e.contains_entities.main()
src.trans_e.convert_relations module
src.trans e.differentiate datasets module
src.trans_e.differentiate_datasets.compare_entities (set1, set2)
src.trans_e.differentiate_datasets.init_argparse()
src.trans_e.differentiate_datasets.main()
src.trans_e.differentiate_datasets. read_dataset (inpath)
src.trans_e.partition_data module
src.trans_e.partition_data.check_data_integrity ( data_inpath, remove_clones, out-
                                                      path)
    Check whether all triplets in the data are unique.
src.trans_e.partition_data. check_set_integrity (indir)
src.trans_e.partition_data.get_stats ( data)
src.trans_e.partition_data.init_argparse()
src.trans_e.partition_data.main()
src.trans_e.partition_data.partition_data ( data, prts, outdir, whole=True)
src.trans_e.partition_data.partition_relation_wise ( data, prts)
src.trans_e.partition_data.partition_whole ( data, prts)
src.trans_e.partition_data. partitions_list (l, prts)
src.trans_e.partition_data.read_only_relations_into_set (inpath)
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1.1.2 Module contents

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