

SciLex

RE Systematic Literature Review

ANNOTATION GUIDELINE

Version 6

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I. Basic Description

These fields are coming from annotations imported from <https://linkedpaperswithcode.com/>

1. Task [S,D,M]

Induced from Linked Paper With Code : <https://paperswithcode.com/sota>

Detail : Which task is it ? Please give here all the subtask the paper is talking about

Where to find the information: Directly explained since the introduction

Borderline examples :

- **Relation Classification / Relation Extraction / EndToEndRE**

must be clearly defined and differentiated

To do it please consider the division of the Relation extraction task defined in [What Do You Mean by Relation Extraction? A Survey on Datasets and Study on Scientific Relation Classification](<https://aclanthology.org/2022.acl-srw.7/>) (Bassignana & Plank, ACL 2022)

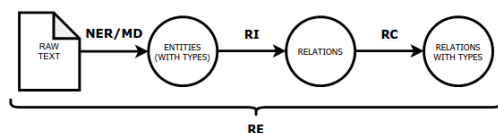


Figure 2: Relation Extraction pipeline. NER: Named Entity Recognition; MD: Mention Detection; RI: Relation Identification; RC: Relation Classification.

Possible values :

Could be extended if new Task found

Task:RelIdentification

Task:NER (named entity recognition)

Task:RelClassif (Relation classification)

Task:EndToEndRE (do everything in one model without dividing the process into substeps)

Task:EntityLinking (entity linking)

Task:Coref (Coreference resolution)

Task:EntityTypeing (Type entity)

Task:NLU (use a model filter step as in rebel)

Task:SlotFilling (try to guess only the object)

2. Archi [S,D,M]

Induced partially from Linked Paper With Code: <https://paperswithcode.com/methods>

Details: Which architecture component is used? We exclude here the pretrained models that are annotated into PTM, pretrained models are instances of architectures. But we also keep Embeddings fields: that could in our case integrate Positional Embeddings as well as Relation or Entity based embeddings.

Where to find the information: Generally found in the model presentation part

Could be extended if new Archi found

Potential problem: could be difficult to list if many

Could be extended if new found

Possible values :

Archi:CNN

Archi:LSTM

Archi:GCN

Archi:BILSTM

Archi:RNN

Archi:RuleSystem

Archi:CRF

Archi:GRU

Archi:SVM

Archi:Encoder

Archi:GAN

Archi:PointerNet

Archi:Decoder

Archi:BIRNN

Archi:Encoder-Decoder

Archi:MarkovNet

Archi:KNN

Archi:CharacterEmbed (Character Embedding)

Archi:EntittyEmbed

...

3. Dataset_created [M]

Here we add the dataset created for the experiments

Induced partially from Linked Paper With Code

<https://paperswithcode.com/datasets>

A dataset here is supposed to be unique and never used before.

Details: Which datasets were created ?

Where to find the information: Generally found in the Dataset part.

4. Dataset [S,M]

Induced partially from Linked Paper With Code

<https://paperswithcode.com/datasets>

Could be extended if new found

Details: Which datasets are used (for model papers) or discussed (in survey papers)?

A dataset related to a scientific publication KB used is here excluded and must be given as a source

Where to find the information: Generally found in the Evaluation part of the Training process one.

Borderline Examples :

- could be difficult to list if many

Existing values :

Dataset:ACE2005, Dataset:Docrd, Dataset:CDR, Dataset:TACRED, Dataset:ADE, Dataset:FewRel, Dataset:ScieRC, Dataset:NYT, Dataset:Wiki-ZSL, Dataset:WebNLG, Dataset:ReTaCRED, Dataset:SemEval, Dataset:GenIA, Dataset:Atis, Dataset:SNIPS, Dataset:COLA, Dataset:MRPC, Dataset:CONLL, Dataset:Rebel, Dataset:RAMS, Dataset:Wiki-Events, Dataset:Maven, Dataset:FB15k-237, Dataset:Atomic, Dataset:WikiMovies, Dataset:Penn-100, Dataset:Web-500, Dataset:DDI, Dataset:PERLEX, Dataset:KBP

5. PreTrainedModel (PTM) [D,S,M]

Induced partially from Linked Paper With Code

Details : Which pretrain models are cited / or used ?

Where to find the information : Generally found in the model presentation part

If transformer from scratch > we precise if this one is decoder/encoder/encoder-decoder

Nb identified values :77 values

Could be extended if new PTM found

Existing values :

PTM:XLNET, PTM:XLM, PTM:Word2Vec, PTM:VICUNA, PTM:TransformerXL, PTM:T5, PTM:T0, PTM:SpanBERT, PTM:SciBERT, PTM:Roberta, PTM:Rebel, PTM:PubMedBERT, PTM:OpenIE, PTM:OllIE, PTM:MT5, PTM:MBERT, PTM:MBART, PTM:LUKE, PTM:Longformer, PTM:LLAMA, PTM:LamDA, PTM:KGBART, PTM:KEPLER, PTM:KBERT, PTM:GPT4, PTM:GPT3, PTM:GPT2, PTM:GPT, PTM:Gopher, PTM:GLM, PTM:FlanT5, PTM:ERNIE, PTM:ELMO, PTM:Electra, PTM:DistillBERT, PTM:DeBERTa, PTM:COMET, PTM:CokeBERT, PTM:ClausIE, PTM:CharacterBERT, PTM:BioBERT, PTM:BERT, PTM:BART, PTM:BARD, PTM:ALPACA, PTM:AIBERT

6. Lang [D,S,M]

Induced partially from Linked Paper With Code

Where to find the information: Since introduction or in the title if other than english. In other case in the dataset presentation

Could be extended if new Lang found

Existing values :

Lang:Chinese, Lang:Multi, Lang:Arabic, Lang:German, Lang:French, Lang:Spanish, Lang:Italian, Lang:Russian, Lang:Dutch, Lang:Portuguese, Lang:Sloven, Lang:Polish, Lang:Finish, Lang:Turkish, Lang:Persian, Lang:Danish, Lang:Greek

II. New annotations

1. Binary dimensions

1. UseNegativeExample_Bin [DM]

Is the model taking in consideration counter examples, or is the dataset containing it ?

Where to find the information: In the dataset paragraph

TRUE > UseNegativeExample_Bin:1

FALSE - Default > Default UseNegativeExample_Bin:0

2. ObjectProperties_Bin [DM]

Does the dataset contain relation implying objects ? We can consider a triplet containing as a third element a unique Id as an object property.

Where to find the information: In the dataset paragraph

TRUE > ObjectProperties_Bin:1

FALSE - Default > ObjectProperties_Bin:0

Borderline Examples : In the fact this is sometimes hard to decide because models and datasets generally rely on label of the object rather than an ID

3. LossUpdate_Bin [M]

Does the model use Other Loss than the one defined in PTM (which is by default the Cross-Entropy)

Where to find the information: In the experimental set-up description part

TRUE > LossUpdate_Bin:1

FALSE - Default > LossUpdate_Bin:0

4. DecodingMethod_Bin [M]

Is the model using a specific method for decoding the output of the LLM, this is only related to generative models. (could be for example Beam Search / Grammar constrained / Constraint sampling)

Where to find the information: In the experimental set-up description part

Borderline Examples : is encoder classifier a decoding method ? No > we prefer to dedicate this dimension to encoder-decoder model

TRUE > DecodingMethod_Bin:1

FALSE - Default > DecodingMethod_Bin:0

5. CostEval_Bin [MDS]

Is the cost of the method evaluated ?

Where to find the information: In the experimental set-up description part

> Time Based / Carbon based

TRUE > CostEval_Bin:1

FALSE - Default > CostEval_Bin:0

6. Linearized_graph_Bin [MDS]

Do the model need to transform graph in a linearized sequence of text

Where to find the information: In the experimental set-up description part

TRUE > Linearized_graph_Bin:1

FALSE - Default > Linearized_graph_Bin:0

7. SynthGeneration_Bin [MD]

8.

Do the Data or model is using synthetic data ?

Where to find the information: Depends to the paper content and structuration

TRUE > SynthGeneration_Bin:1

FALSE - Default > SynthGeneration_Bin:0

9. Survey_Methodo_Bin [S]

Do the Survey follow a specific and defined methodology ?

Where to find the information: Depends to the paper content and structuration, but generally in the methodology part

TRUE > Survey_Methodo_Bin:1

FALSE - Default > Survey_Methodo_Bin:0

2. CATEGORICAL

1. MANUALANNOTATION_BIN [DM]

Was the dataset annotated manually?

Where to find the information: In the dataset description part

Possible values : 0/1 and partial

2. DatatypeProp: [D]

Details: Is the paper integrating the extraction of objects that are related to datatype properties?

<https://www.w3.org/TR/owl-ref/#Datatype>

Where to find the information: in the dataset presentation

Borderline example : hard to answer if not explicitly told in the paper, dates for examples are considered as object in WD

CUSTOM > (LIST of datatype used)

DatatypeProp:String / DatatypeProp:Date / DatatypeProp:Number

3. BenchmarkType [S]

CUSTOM > (quanti or quali)

Where to find the information: in the benchmark part

Details : A paper containing a table with quantitative or/and qualitative comparison of models

BenchmarkType:Quanti OR BenchmarkType:Quali

4. Input [D,S,M]

What is used as input of the models ?

Input:IndexedSpan

Input:EntityLink

Input:DependancyParsing

Input:POSTAG

Input:Embedding

5. LEARNING [S,M]

Learning method used to produce a model

Where to find the information: In the methodological part

Could be extended if new Lang found

Possible values :

LearningMethod:PromptBased:

LearningMethod:Distant

LearningMethod:Active

LearningMethod:FewShot

LearningMethod:Finetuning

LearningMethod:Contrastive

LearningMethod:Continual
 LearningMethod:Reinforcement
 LearningMethod:ZeroShot
 LearningMethod:UnsupervisedPTM
 LearningMethod:PromptTuning
 LearningMethod:Instruct
 LearningMethod:NO
 LearningMethod:PrompTuning
 LearningMethod:Unsupervised

6. GRANULARITY [D,S,M]

Is the model made to process Document or just sentences ?

Where to find the information: Generally since the introduction, or could be inferred in regards of the dataset used

Values :

Granularity:Document OR Granularity:Sentence

7. SOURCE [D]

Details : Which is the original source of the dataset ?

Where to find the information: In the methodological part

Could be internet corpora / a KB, an other Dataset...

Could be extended if new Lang found

Example of values :

Source:Wikidata, Source:Dbpedia, Source:Web, Source:Freebase, Source:PubMed, Source:NYT,
 Source:NCBI, Source:NLM-Gene, Source:GnormPlus, Source:C4, Source:Twitter,
 Source:WebDataCommon, Source:GoogleNews, Source:MLNLeague, Source:WikiNews,
 Source:Reuters, Source:DeutscheWelle, Source:TextBook, Source:Umls, Source:WordNet,
 Source:ConceptNet, Source:Atomic

8. DOMAIN [SDM]

Focused domain of application of the dataset/survey/model

Where to find the information: In the dataset presentation, the introduction or the other works
CUSTOM

Could be extended if new Lang found

Example of values :

Domain:Encyclo, Domain:Science, Domain:BioMedical, Domain:Politic, Domain:News,
 Domain:Litterature, Domain:General, Domain:Multi, Domain:Bio, Domain:Medical, Domain:Web,
 Domain:Finance, Domain:Sport, Domain:weather, Domain:Military, Domain:Music,
 Domain:Humanities, Domain:Economy, Domain:Legal, Domain:ScienceLitt

9. DATASET SPLIT [MD]

How the dataset was splitted into Train/Test/eval split

Where to find the information: In the dataset presentation

Could be extended if new Lang found

Example of values :

**SelectionMethod:BalancedSampling / SelectionMethod:Random /
SelectionMethod:ChallengingEx**

4. STATS

> OPTIONNAL FOR MODEL > MANDATORY FOR DATASET

All the stats are reduced to Scale Base Notation 10^n

1. NbDoc [D,M]

Details: Number of document in the dataset or used by the model

2. NbSent [D,M]

Details: Number of sentences in the dataset or used by the model

3. NbDataset [D,M]

Details: Number of entity types integrated into the dataset or used by the mode

4. NbModel [SM]

Details : Number models compared or developed

Where to find the information: in methodological part/benchmark part or evaluation part

5. NbTypeEntity [D,M]

Details: Number of entity types integrated into the dataset or used by the model

6. NbEntity [D,M]

Details: Number of entities integrated into the dataset or used by the model

7. NbTypeRel [D,M]

Details : NB of properties or relation in the dataset or learn by a given model

Where to find the information: Generally related to the paper structure

8. NbTriples [D,M]

Details : Number of triples used for the model training or available in the dataset (based on the models/dataset studied)

Where to find the information: in the dataset or methodological part

III. Using Zotero for the annotation process

1. Acces to the library

From the website

The screenshot shows the Zotero web interface. On the left, there's a sidebar with a file explorer showing folders like 'WebCor2022', 'Wikipedia_researchs', 'Wikipedia_study', 'WikipediaSocialDynamic', 'WordEmbeddingsPapers', 'My Publications', 'Trash', 'Group Libraries', 'ESWC 2022: reading group', 'NLP_KB_readingGroup', 'Savori_ben_ete', 'SURVEY_RE_collabSTEP', 'datasets', 'datasets_subset', 'models', 'models_subset', and 'surveys'. The main area displays a list of papers with columns for Title, Creator, Date, and a link icon. The list includes papers like 'A Brief Review of Relation Extraction Based on Pre-Trained Language Models' by Tiange Xu (2020), 'A Comparison of Knowledge Extraction Tools for the Semantic Web' by Gangemi (2013), and 'A Comprehensive Survey on Automatic Knowledge Graph Construction' by Lingfeng Zhong et al. (2023-02-10). At the bottom right, it says '378 Items in this view'.

or from the app :

The screenshot shows the Zotero desktop application interface. The left sidebar is similar to the web version, showing the same folder structure. The main pane displays a list of papers with columns for Title, Publisher, Publication, Date Added, Date Modified, and a link icon. The list includes papers like 'Exploiting Asymmetry for Synthetic Training Data Generation...', 'DREEM: Guiding Attention with Evidence for Improving Docu...', 'WZT: Cross-Lingual Fact-to-Text Generation for Low-Resource...', 'Unified Structure Generation for Universal Information Extract...', 'Towards Realistic Low-resource Relation Extraction: A Benchm...', 'RMAN: Relational multi-head attention neural network for joint...', 'RelationPrompt: Leveraging Prompts to Generate Synthetic Da...', 'Learning to Reason Deductively Math Word Problem Solving a...', 'KST-GCN: A Knowledge-Driven Spatial-Temporal Graph Conv...', 'KnowPrompt: Knowledge-aware Prompt-tuning with Synergisti...', 'KnowGL: Knowledge Generation and Linking from Text', 'Joint extraction of entities and overlapping relations by improv...', 'GentIE: Generative Information Extraction', 'Generative Prompt Tuning for Relation Classification', 'From Discrimination to Generation: Knowledge Graph Comple...', 'Exploring Text Representations for Generative Temporal Relat...', 'DORE: Document Ordered Relation Extraction based on Gener...', 'DeepStruct: Pretraining of Language Models for Structure Pre...', 'ClarIE: Pre-training a Correlation-Aware Context-To-Event Tra...', 'BART-Reader: Predicting Relations Between Entities via Readin...', 'ZS-BERT: Towards Zero-Shot Relation Extraction with Attribute...', 'Utilizing Relative Event Time to Enhance Event-Event Temporal...', 'UNIRE: A Unified Label Space for Entity Relation Extraction', 'Syntax-type-aware graph convolutional networks for natural la...', 'Structured Prediction as Translation between Augmented Natu...', 'Structural Information Preserving for Graph-to-Text Generation', 'SIRE: Separate Intra- and Inter-sentential Reasoning for Docu...', 'Semi-supervised Relation Extraction via Incremental Meta Self...', 'Representation Iterative fusion based on heterogeneous grap...', 'Relation Classification with Entity Type Restriction', 'ReGen: Reinforcement Learning for Text and Knowledge Base...', 'REBEL: Relation Extraction By End-to-end Language generation', 'Memorization vs. Generation: Quantifying Data Leakage in...', 'Local-to-global GCN with knowledge-aware representation for...', 'JointGT: Graph-Text Joint Representation Learning for Text Gen...', 'Joint Biomedical Entity and Relation Extraction with Knowledge...', 'Improving Distantly-Supervised Relation Extraction Through B...', 'Improving Biomedical Pretrained Language Models with Know...', 'Improving BERT Model Using Contrastive Learning for Biomed...', 'Extracting Event Temporal Relations via Hyperbolic Geometry', 'Entity Structure Within and Throughout: Modeling Mention Dep...', 'Enhanced prototypical network for few-shot relation extraction'.

I advice to download and use the local app

- > it synchronize the content and allows to work without internet
- > allows to download and annotate with PDF in the same windows

2. Content of the lib :

SURVEY_RE_collabSTEP

- datasets** (Contains 63 datasets)
 - datasets_subset** (Subset to annotate (originals) > Shared by annotators (copy of originals))
 - CF
 - CR
 - FG
 - FM
 - HA
- models** (Contains 154 models)
 - models_subset** (Subset to annotate (originals) > Shared by annotators (copy of originals))
 - CF
 - CR
 - FG
 - FM
 - HA
- surveys** (Contains 72 surveys)

3. Usage

Reminder : the pdf could be downloaded and watched via the local app

PAPER SELECTION

Title	Publisher	Publication	Re	Date Add.	Date Modified	An	Loc. in Archive	Ed	Shor...	Extra
2022 Association...	Proceedings of L...	11/04/2022...	11/04/2023...	FILE						
2022 Springer Int...	Natural Language...	11/04/2022...	11/04/2023...	BART...						
2020 ACL	Proceedings of...	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2020 Association...	Proceedings of L...	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2020 ACL	Proceedings of L...	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2019 ACL	NA	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2019 ACL	NA	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2019 ACL	NA	11/04/2022...	11/04/2023...	ht...	https://github.co...					
2019 ACL	NA	11/04/2022...	11/04/2023...	ht...	https://github.co...					

ACCES TO PERSONNAL LIB

RESEARCH BY TAG

TAG EDITION

ACCES TO PERSONNAL LIB :

each paper is checked by 3 annotators, and each of them receives the same copy of the paper to annotate.

RESEARCH BY TAG :

- Researching only “?” filter the papers by the fields still blank
- Filtering by only giving the annotation dim name allows to check the values already given in the subset

!! Using the research on the entire set (ex: “modele” lib) allows us to get the values already given at the corpora level - > could be also useful to use

TAG EDITION :

- > A missing tag must be completed or deleted
- > That is possible to add multiple values by dimension
- > A tag could be deleted or edited

ComplementaryValues :

NSP

DONE

EXCLUDED

IV. ANNOTATION SUMMARY:

tag	nb	datasets	surveys	models	type	new for models	detail
LearningMethod	168			X	quali		TO EXTRACT
Granularity	123	X	X	X	quali		TO EXTRACT
Source	84	X			quali		TO EXTRACT
DATASETSplit	63	X		X	quali		TO EXTRACT
Domain	61	X	X		quali		TO EXTRACT
Survey_Methodo_Bin	51		X		Bin		TO EXTRACT
Input	42			X	Quali		TO EXTRACT
BenchmarkType	28		X		Quali		TO EXTRACT
UseNegativeExample_Bin	12			X	Bin		TO EXTRACT
DatatypeProp	9	X		X	Quali		TO EXTRACT
SynthGeneration_Bin	8	X		X	Bin		TO EXTRACT
LinearizedGraph_Bin	4			X	Bin		TO EXTRACT
DecodingMethod_Bin	4			X	Bin		TO EXTRACT
LossUpdate_Bin	4			X	Bin		TO EXTRACT
CostEval_Bin	3			X	Bin		TO EXTRACT
ObjectProperties_Bin	0			X	Bin	1	TO EXTRACT
Task	362	X	X	X	quali		TO CHECK
PTM	139		X	X	quali		TO CHECK
Archi	119		X	X	quali		TO CHECK
Lang	118	X	X	X	quali		TO CHECK
Dataset	78		X	X	quali		TO CHECK
NbTypeRel	47	X		X	Scaled		OPTIONAL
NbTriples	32	X			Scaled		OPTIONAL
NbDoc	29	X			Scaled		OPTIONAL
NbModel	27		X		Scaled		OPTIONAL
NbTypeEntity	23	X			Scaled		OPTIONAL
NbEntity	21	X			Scaled		OPTIONAL
NbDataset	21		X	X	Scaled		OPTIONAL
NbSent	20	X			Scaled		OPTIONAL

V. MODEL CHECKLIST

tag	nb	type	detail	Model1	Model2	Model3	Model4	Model5	Model6
Task	362	quali	TO CHECK						
LearningMethod	168	quali	TO EXTRACT						
PTM	139	quali	TO CHECK						
Granularity	123	quali	TO EXTRACT						
Archi	119	quali	TO CHECK						
Lang	118	quali	TO CHECK						
Dataset	78	quali	TO CHECK						
DATASETSPLIT	63	quali	TO EXTRACT						
NbTypeRel	47	Scaled	OPTIONAL						
Input	42	Quali	TO EXTRACT						
NbDataset	21	Scaled	OPTIONAL						
UseNegativeExample_Bin	12	Bin	TO EXTRACT						
DatatypeProp	9	Quali	TO EXTRACT						
SynthGeneration_Bin	8	Bin	TO EXTRACT						
LinearizedGraph_Bin	4	Bin	TO EXTRACT						
DecodingMethod_Bin	4	Bin	TO EXTRACT						
LossUpdate_Bin	4	Bin	TO EXTRACT						
CostEval_Bin	3	Bin	TO EXTRACT						
ObjectProperties_Bin	0	Bin	TO EXTRACT						

VI. DATASET CHECKLIST

tag	nb	datasets	type	detail	Dataset1	Dataset2	Dataset3
Task	362	X	quali	TO CHECK			
Source	84	X	quali	TO EXTRACT			
Domain	61	X	quali	TO EXTRACT			
Granularity	123	X	quali	TO EXTRACT			
Lang	118	X	quali	TO CHECK			
DATASET SPLIT	63	X	quali	TO EXTRACT			
NbTypeRel	47	X	Scaled	OPTIONAL			
DatatypeProp	9	X	Quali	TO EXTRACT			
SynthGenerati on_Bin	8	X	Bin	TO EXTRACT			
NbTriples	32	X	Scaled	OPTIONAL			
NbDoc	29	X	Scaled	OPTIONAL			
NbTypeEntity	23	X	Scaled	OPTIONAL			
NbEntity	21	X	Scaled	OPTIONAL			
NbSent	20	X	Scaled	OPTIONAL			

VII. SURVEY CHECKLIST

tag	nb	detail	Survey1	Survey2	Survey3
Task	362	TO CHECK			
PTM	139	TO CHECK			
Domain	61	TO EXTRACT			
Survey_Methodo_B in	51	TO EXTRACT			
Granularity	123	TO EXTRACT			
BenchmarkType	28	TO EXTRACT			
Archi	119	TO CHECK			
Lang	118	TO CHECK			
Dataset	78	TO CHECK			
NbDataset	21	OPTIONAL			
NbModel	27	OPTIONAL			

VIII. VALUES DICTIONNARY

level1	tag	nb
Archi	Archi:BILSTM	4
Archi	Archi:BILSTM	9
Archi	Archi:BIRNN	1
Archi	Archi:CNN	23
Archi	Archi:CNN	3
Archi	Archi:CRF	3
Archi	Archi:Decoder	2
Archi	Archi:Encoder	2
Archi	Archi:Encoder-Decoder	5
Archi	Archi:Encoder-Decoder	4
Archi	Archi:GAN	2
Archi	Archi:GCN	6
Archi	Archi:GCN	10
Archi	Archi:GraphTransformer	1
Archi	Archi:GRU	1
Archi	Archi:GRU	2
Archi	Archi:KNN	1
Archi	Archi:LSTM	15
Archi	Archi:MarkovNet	1
Archi	Archi:PointerNet	3
Archi	Archi:RNN	9
Archi	Archi:RuleSystem	6
Archi	Archi:SVM	3
Archi	Archi:Unet	1
BenchmarkType	BenchmarkType:?	1
BenchmarkType	BenchmarkType:Quali	12
BenchmarkType	BenchmarkType:Quanti	15
CostEval_Bin	CostEval_Bin:1	3
Dataset	Dataset:ACE2005	8
Dataset	Dataset:ACE2005	4
Dataset	Dataset:ADE	4
Dataset	Dataset:Atis	1
Dataset	Dataset:Atomic	1
Dataset	Dataset:CDR	4
Dataset	Dataset:CDR	1
Dataset	Dataset:CONLL	1
Dataset	Dataset:DDI	1
Dataset	Dataset:Docrd	6

Dataset	Dataset:FB15k-237	1
Dataset	Dataset:FewRel	4
Dataset	Dataset:FewRel	1
Dataset	Dataset:GenIA	1
Dataset	Dataset:KBP	1
Dataset	Dataset:Maven	1
Dataset	Dataset:NYT	2
Dataset	Dataset:NYT	6
Dataset	Dataset:Penn-100	1
Dataset	Dataset:PERLEX	1
Dataset	Dataset:RAMS	1
Dataset	Dataset:Rebel	3
Dataset	Dataset:ReTaCRED	3
Dataset	Dataset:ScieRC	4
Dataset	Dataset:SemEval	3
Dataset	Dataset:SNIPS	1
Dataset	Dataset:TACRED	5
Dataset	Dataset:Web-500	1
Dataset	Dataset:WebNLG	3
Dataset	Dataset:Wiki-Events	1
Dataset	Dataset:Wiki-ZSL	2
Dataset	Dataset:WikiMovies	1
DatatypeProp	DatatypeProp:?	2
DatatypeProp	DatatypeProp:Date	3
DatatypeProp	DatatypeProp:Number	1
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Domain	Domain:General	1
Domain	Domain:Humanities	2
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PTM	PTM:ELMO	3
PTM	PTM:ERNIE	4
PTM	PTM:FlanT5	2
PTM	PTM:GLM	2
PTM	PTM:Gopher	1
PTM	PTM:GPT	5
PTM	PTM:GPT2	3
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PTM	PTM:GPT4	1
PTM	PTM:KBERT	1
PTM	PTM:KEPLER	1
PTM	PTM:KGBART	1
PTM	PTM:LamDA	1
PTM	PTM:LLAMA	1
PTM	PTM:Longformer	1
PTM	PTM:LUKE	1
PTM	PTM:MBART	3
PTM	PTM:MBERT	1
PTM	PTM:MT5	1
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PTM	PTM:OpenIE	1
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PTM	PTM:Rebel	1
PTM	PTM:Roberta	9
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PTM	PTM:T0	1
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Source	Source:NLM-Gene	1
Source	Source:NYT	1
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Source	Source:Twitter	2
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