

Fine-Grained Semantic Relation Typology

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RELATION TYPE	Explanation	Example
affects	ARG1: <i>specific property of data</i> ARG2: <i>results</i>	order – performance
anto	ARG1 and ARG2 are antonyms	input – output
based_on	ARG1 <i>method, artefact</i> based on ARG2 <i>method/resource</i>	approach – knowledge
char	ARG1: <i>observed characteristic</i> of an ARG2: <i>observed entity</i>	form – word
cohyp	ARG1 and ARG2 are co-hyponyms	syntax – semantics
compare	ARG1: <i>result (of method)</i> compared to ARG2: <i>result,standard</i>	results – standard
composed_of	ARG1: <i>database</i> is composed of or contains ARG2: <i>data</i>	corpus – speech
datasource	ARG1: <i>information</i> extracted from ARG@: <i>data</i>	knowledge – text
isa	ARG1 is a ARG2	machine translation – NLP t
methodapplied	ARG1: <i>method, system</i> applied to ARG2: <i>data (type)</i>	machine translation – english
model	ARG1: <i>(part of) model</i> of an ARG2: <i>observed entity</i>	definition – word
phenomenon	ARG1: <i>entity, phenomenon</i> found in ARG2: <i>context</i>	punctuation – sentences
problem	ARG1: <i>phenomenon</i> is a problem in a ARG2: <i>field/task</i>	ambiguity – NLP
propose	ARG1: <i>paper/author</i> presents ARG2: <i>idea, topic, approach</i>	paper – approach
study	ARG1: <i>analysis</i> of ARG2: <i>phenomenon, topic</i>	study – syntax
tag	ARG1: <i>tag/meta-information</i> associated to ARG2: <i>entity</i>	parse tree – sentence
task_applied	ARG1: <i>task</i> performed on ARG2: <i>data</i>	processing – sentences
used_for	ARG1: <i>method/system</i> used to perform a ARG2: <i>task</i>	approach – parsing
uses_information	ARG1: <i>method</i> uses/relies on ARG2: <i>information</i>	system – information
wrt	ARG1: <i>change</i> in/with respect to ARG2: <i>criterion</i>	increase – coverage
yields	ARG1: <i>experiment/method</i> gives a ARG2: <i>result</i>	

Table 1: Relations