

Propositions

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1. A single resource of domain-specific knowledge provides solutions for many tasks that deal with vaccine-related information, where statistical learning methods require large annotated training corpora for each task. *This thesis*
2. The mapping of a clinical case definition to database codes for extraction can be partially automated using formalized knowledge, but clinical and epidemiological knowledge including an understanding of the study goals has to be added in manual revision. *Chapter 6*
3. In an approach that combines knowledge-based, statistical and linguistic features, each feature type helps a computer in making sense of free text. *Chapter 5*
4. Public messages about vaccines in social media mostly witness the perception of other internet content rather than that they express private experience with vaccines. *Chapter 1*
5. Public discussion about vaccines is shaped by multiple national debates rather than a multinational debate. *Chapter 2*
6. Talk is cheap. Show me the code! *Torvalds 2000*
7. Programming is teaching a computer to pretend to have reached the top of the semiotic triangle.
8. A formalization of the Shell language allows proving the absence of runtime errors by symbolic execution
9. A burden of proof has to be placed on authority, and it should be dismantled if that burden cannot be met. *Chomsky 1995*
10. The current extinction rates vastly exceed natural average background rates across animal groups. *Ceballos 2015*
11. There she blows!—there she blows! A hump like a snow-hill! *Melville 1851*