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Titolo	Vector Semantics
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Edizione	[1st ed.]
Descrizione fisica	1 electronic resource (273 p.)
Collana	Cognitive Technologies
Soggetti	Natural language & machine translation Computational linguistics Artificial intelligence Machine learning Expert systems / knowledge-based systems Literature: history & criticism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This open access book introduces Vector semantics, which links the formal theory of word vectors to the cognitive theory of linguistics. The computational linguists and deep learning researchers who developed word vectors have relied primarily on the ever-increasing availability of large corpora and of computers with highly parallel GPU and TPU compute engines, and their focus is with endowing computers with natural language capabilities for practical applications such as machine translation or question answering. Cognitive linguists investigate natural language from the perspective of human cognition, the relation between language and thought, and questions about conceptual universals, relying primarily on in-depth investigation of language in use. In spite of the fact that these two schools both have ‘linguistics’ in their name, so far there has been very limited communication between them, as their historical origins, data collection methods, and conceptual apparatuses are quite different. Vector semantics bridges the gap by presenting a formal theory, cast in terms of linear

	polytopes, that generalizes both word vectors and conceptual structures, by treating each dictionary definition as an equation, and the entire lexicon as a set of equations mutually constraining all meanings.

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Titolo	2004 IEEE International Conference on Field-Programmable Technology : proceedings : December 6-8, 2004, the University of Queensland, Brisbane, Australia
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