

1. Record Nr.	UNINA9910300598703321
Autore	Pace-Sigge Michael <1970->
Titolo	Spreading Activation, Lexical Priming and the Semantic Web : Early Psycholinguistic Theories, Corpus Linguistics and AI Applications // by Michael Pace-Sigge
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Palgrave Pivot, , 2018
ISBN	3-319-90719-0
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XIII, 135 p. 15 illus.)
Disciplina	410.188
Soggetti	Corpora (Linguistics) Artificial intelligence Psycholinguistics Lexicology Pragmatics Translation and interpretation Corpus Linguistics Artificial Intelligence Lexicology/Vocabulary Translation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction -- Chapter 2: M. Ross Quillian, priming, spreading-activation and the semantic web -- Chapter 3: Where corpus linguistics and artificial intelligence (AI) meet -- Chapter 4: Take home messages for linguists and artificial intelligence designers -- Chapter 5: Conclusions.
Sommario/riassunto	This book explores the interconnections between linguistics and Artificial Intelligence (AI) research, their mutually influential theories and developments, and the areas where these two groups can still learn from each other. It begins with a brief history of artificial intelligence theories focusing on figures including Alan Turing and M. Ross Quillian and the key concepts of priming, spread-activation and the semantic web. The author details the origins of the theory of lexical priming in

early AI research and how it can be used to explain structures of language that corpus linguists have uncovered. He explores how the idea of mirroring the mind's language processing has been adopted to create machines that can be taught to listen and understand human speech in a way that goes beyond a fixed set of commands. In doing so, he reveals how the latest research into the semantic web and Natural Language Processing has developed from its early roots. The book moves on to describe how the technology has evolved with the adoption of inference concepts, probabilistic grammar models, and deep neural networks in order to fine-tune the latest language-processing and translation tools. This engaging book offers thought-provoking insights to corpus linguists, computational linguists and those working in AI and NLP. Michael Pace-Sigge is Senior Lecturer at the University of Eastern Finland, Finland. His key areas of research are corpus linguistics and lexical priming. He is the author of *Lexical Priming in Spoken English Usage* (2013) and co-editor of *Lexical Priming: Advances and Applications* (2017).
