منابع

[۱]   R. Chaffin and D. J. Herrmann, "The nature of semantic relations: A comparison of two approaches," in *Relational models of the lexicon: Representing knowledge in semantic networks* ed: Cambridge: Cambridge University Press, ۱۹۸۸a, pp. ۲۸۹-۳۳۴.

[۲]   Aristotle, "Aristotle's metaphysics," *London: JM Dent & Sons,* ۱۹۶۱.

[۳]   D. Hume and A. Smith, An Enquiry Concerning Human Understanding and Selections from A Treatise of Human Nature: With Hume's Autobiography and a Letter from Adam Smith: Open court, ۱۹۰۷.

[۴]   J. Lyons, *Semantics. vol.* ۲: Cambridge University Press, ۱۹۷۷.

[۵]   F. d. Saussure, Course in general linguistics(edited by C. Bally & A. Sechehaye, and translated by W. Baskin). New York: McGraw-Hill, ۱۹۵۹.

[۶]   R. Green, et al., The semantics of relationships: An interdisplinary perspective. Dordrecht: Kluwer, ۲۰۰۲.

[۷]   R. Green, "Relationships in the organizat of knowledge: an overview," *Relationships in the organization of knowledge,* pp. ۳-۱۸, ۲۰۰۱.

[۸]   J. F. Sowa, "Conceptual structures: Information processing in mind and machine," *MA: Addison-Wesley.,* ۱۹۸۴.

[۹]   L. Wittgenstein, *Philosophical Investigations*. New York: The MacMillan Company, ۱۹۵۳.

[۱۰]   M. L. Murphy, Semantic relations and the lexicon: Antonym, synonymy, and other paradigms: Cambridge: Cambridge University Press, ۲۰۰۳.

[۱۱]   D. A. Cruse, *Meaning in language: An introduction to semantics and pragmatics*, ۲nd ed.: Oxford: Oxford University Press, ۲۰۰۴.

[۱۲] B. A. Spellman*, et al.*, "Analogical priming via semantic relations," *Memory & Cognition,* vol. ۲۹, pp. ۳۸۳-۳۹۳, ۲۰۰۱.

[۱۳] D. J. Hermann*, et al.*, "Comprehension of antonymy and the generality of categorization models," *Journal of experimental psychology: human learning and memory,* vol. ۵, p. ۵۸۵, ۱۹۷۹.

[۱۴] G. Lakoff, "The contemporary theory of metaphor," *Metaphor and thought,* vol. ۲, pp. ۲۰۲-۲۵۱, ۱۹۹۳.

[۱۵] D. A. Cruse, *Lexical semantics*: Cambridge: Cambridge University Press, ۱۹۸۶.

[۱۶] J. Lyons, *Semantics* Cambridge:Cambridge University Press, ۱۹۷۷.

[۱۷] J. Lyons, *Linguistic semantics: An introduction*: Cambridge: Cambridge University Press, ۱۹۹۵.

[۱۸] R. Chaffin and D. J. Herrmann, "The similarity and diversity of semantic relations," *Memory & Cognition,* vol. ۱۲, pp. ۱۳۴-۱۴۱, ۱۹۸۴.

[۱۹] R. Chaffin and D. J. Herrmann, "Relation element theory: A new account of the representation and processing of semantic relations.," presented at the Learning and memory: The Ebbinghaus Centennial Hillsdale, NJ: Erlbaum, ۱۹۸۷.

[۲۰] K. J. Holyoak and J. I. Kiger, "Role of antonymy relations in semantic judgments," *Journal of Experimental Psychology,* vol. ۵, pp. ۵۹۸-۶۰۶, ۱۹۷۹.

[۲۱] T. Landis*, et al.*, "Developmental differences in the comprehension of semantic relations," *Zeitschrift für Psychologie mit Zeitschrift für angewandte Psychologie,* vol. ۱۹۵, pp. ۱۲۹-۱۳۹, ۱۹۸۷.

[۲۲] M. Hudon, "Relationships in multilingual thesauri," *Relationships in the organization of knowledge,* vol. ۲, p. ۶۷, ۲۰۰۱.

[۲۳] J. Markowitz, "An exploration into graded set membership," in *Relational models of the lexicon*, ۱۹۸۹, pp. ۲۳۹-۲۶۰.

[۲۴]   F. Keil, "Categorisation, causation, and the limits of understanding," *Language and Cognitive Processes,* vol. ۱۸, pp. ۶۶۳-۶۹۲, ۲۰۰۳.

[۲۵]   W. D. Wattenmaker*, et al.*, "Relationships between similarity-based and explanation-based categorization," ۱۹۸۸.

[۲۶]   R. Chaffin, "The concept of a semantic relation," *Frames, Fields and contrasts,* pp. ۲۵۳-۲۸۸, ۱۹۹۲.

[۲۷]   R. Green, "Internally-structured conceptual models in cognitive semantics," *The semantics of relationships,* pp. ۷۳-۹۰, ۲۰۰۲.

[۲۸]   T. P. McNamara and J. B. Holbrook, "Semantic memory and priming," *Handbook of psychology,* ۲۰۰۳.

[۲۹]   M. R. Quillian, "Word concepts: A theory and simulation of some basic semantic capabilities," *Behavioral Science,* vol. ۱۲, pp. ۴۱۰-۴۳۰, ۱۹۶۷.

[۳۰]   A. M. Collins and M. R. Quillian, "Retrieval time from semantic memory," *Verbal Learning and Verbal Behavior,* vol. ۸, pp. ۲۴۰-۲۴۷, ۱۹۶۹.

[۳۱]   J. Kounios*, et al.*, "Semantic memory and the granularity of semantic relations: Evidence from speed-accuracy decomposition," *Memory & Cognition,* vol. ۲۲, pp. ۷۲۹-۷۴۱, ۱۹۹۴.

[۳۲]   D. J. Henmann, "Representational forms of semantic relations and the modeling of relation comprehension," in *Knowledge-aided information processing*, E. v. d. Meer and J. Hoffmann, Eds., ed Amsterdam: North-Holland, ۱۹۸۷, pp. ۱۳-۲۹.

[۳۳]   J. F. Sowa, "Knowledge representation: Logical, philosophical, and computational foundations," *Pacific Grove,* p. CA: Brooks/Cole, ۲۰۰۱.

[۳۴]   N. Calzolari, "The dictionary and the thesaurus can be combined," in *Relational models of the lexicon*, ۱۹۸۹, pp. ۷۵-۹۶.

[۳۵]   F. De Saussure, et al., "Course in general linguistics," W. Baskin (trans.). Philosophical Library, New York Cours de linguistique générale. Ch. Bally, A. Sechehaye (in coop. with) A. Riedlinger (eds.). Payot, Lausanne & Paris (۱۹۵۹ [۱۹۱۶]), ۱۹۵۹.

[۳۶]   F. De Saussure, *et al.*, *Course in general linguistics*: Columbia University Press, ۲۰۱۱.

[۳۷]   R. Asher, "The encyclopedia of language and linguistics," ۱۹۹۴.

[۳۸]   P. Simpson, "The encyclopedia of language and linguistics," ۲۰۱۰.

[۳۹]   F. W. Lancaster, *Vocabulary control for information retrieval*: Info Resources Pr, ۱۹۸۶.

[۴۰]   S. H. Myaeng and M. L. McHale, "Toward a relation hierarchy for information retrieval," *Advances in Classification Research Online,* vol. ۲, pp. ۹۷-۱۱۰, ۱۹۹۱.

[۴۱]   A. Neelameghan, "Lateral relationships in multicultural, multilingual databases in the spiritual and religious domains: The OM Information Service," in *Relationships in the organization of knowledge*, ed: Springer, ۲۰۰۱, pp. ۱۸۵-۱۹۸.

[۴۲]   J. F. Sowa, Knowledge representation: logical, philosophical, and computational foundations vol. ۱۳: MIT Press, ۲۰۰۰.

[۴۳]   B. Vickery, "Conceptual relations in information systems," *Journal of Documentation,* vol. ۵۲, pp. ۱۹۸-۲۰۰, ۱۹۹۶.

[۴۴]   I. Mel'cuk, "Lexical functions: A tool for the description of lexical relations in a lexicon," *Lexical functions in lexicography and natural language processing,* pp. ۳۷-۱۰۲,Amsterdam: John Benjamins, ۱۹۹۶.

[۴۵]   C. J. Fillmore, "ome problems for case grammar," in ۲۲nd Annual Round Table. Linguistics: Developments of the Sixties - Viewpoints of the Seventies Washington, ۱۹۷۱.

[۴۶]   W. A. Cook, *Case grammar theory*. Washington: Georgetown University, ۱۹۸۹.

[۴۷]   R. E. Longacre, *The grammar of discourse*: Springer, ۱۹۹۶.

[۴۸]   S. H. Myaeng*, et al.*, "Linguistic processing of text for a large-scale conceptual information retrieval system," in *Conceptual Structures: Current Practices*, ed: Springer, ۱۹۹۴, pp. ۶۹-۸۳.

[۴۹]   H. L. Somers, *Valency and case in computational linguistics* vol. ۲۲: Edinburgh University Press Edinburgh, ۱۹۸۷.

[۵۰]   D. Dowty, "Thematic proto-roles and argument selection," *Language,* vol. ۶۷, pp. ۵۴۷-۶۱۹, ۱۹۹۱.

[۵۱]   W. Crombie, *Process and relation in discourse and language learning*: Oxford University Press Oxford, ۱۹۸۵.

[۵۲]   M. A. K. Halliday and R. Hasan, *Cohesion in English*. London: Longman, ۱۹۷۶.

[۵۳]   S. Eggins, *An introduction to systemic functional linguistics*: London: Pinter Publishers, ۱۹۹۴.

[۵۴]   M. Tofiloski, "Extending centering theory for the measure of entity coherence," School of Computing Science-Simon Fraser University, ۲۰۰۹.

[۵۵]   R. Barzilay and M. Lapata, "Modeling local coherence: An entity-based approach," *Computational Linguistics,* vol. ۳۴, pp. ۱-۳۴, ۲۰۰۸.

[۵۶]   C. Cherry, "Cohesive phrase-based decoding for statistical machine translation," *Proceedings of ACL-۰۸: HLT,* pp. ۷۲-۸۰, ۲۰۰۸.

[۵۷]   N. Madnani*, et al.*, "Measuring variability in sentence ordering for news summarization," in *Proceedings of the Eleventh European Workshop on Natural Language Generation*, ۲۰۰۷, pp. ۸۱-۸۸.

[۵۸]   T. A. Van Dijk, "News as discourse," ۱۹۸۸.

[۵۹]   W. C. Mann and S. A. Thompson, "Rhetorical Structure Theory: A Theory of Text Organization," DTIC Document۱۹۸۷.

[۶۰]   T. A. Dijk, Macrostructures: An interdisciplinary study of global structures in discourse, interaction, and cognition: L. Erlbaum Associates Hillsdale, NJ, ۱۹۸۰.

[۶۱]   P. Schneider and S. Winship, "Adults' judgments of fictional story quality," *Journal of Speech, Language and Hearing Research,* vol. ۴۵, p. ۳۷۲, ۲۰۰۲.

[۶۲]   R. R. Lang, "Story grammars: return of a theory," *Narrative Intelligence,* pp. ۱۹۹-۲۱۲, ۲۰۰۲.

[۶۳]   R. Tang and P. Solomon, "Use of relevance criteria across stages of document evaluation: On the complementarity of experimental and naturalistic studies.," *American Society for Information Science and Technology,* vol. ۵۲, pp. ۶۷۶-۶۸۵, ۲۰۰۱.

[۶۴]   D. A. Cruse, *A glossary of semantics and pragmatics*: Edinburgh University Press, ۲۰۰۶.

[۶۵]   D. A. Cruse and קרוז א, *Meaning in language*: Oxford University Press Oxford, ۲۰۰۰.

[۶۶]   J. Lyons, *Introduction to theoretical linguistics*: Cambridge university press, ۱۹۶۸.

[۶۷]   D. A. Cruse, "Hyponymy and its varieties," *The semantics of relationships: An interdisplinary perspective,* pp. ۳-۲۲,Dordrecht: Kluwer, ۲۰۰۲.

[۶۸]   C. Fellbaum, "On the semantics of troponymy," *The semantics of relationships: An interdisplinary perspective,* pp. ۲۳-۳۴,Dordrecht: Kluwer, ۲۰۰۲.

[۶۹]   S. Pribbenow, "Meronymic relationships: From classical mereology to complex part-whole relations," *The semantics of relationships: An interdisplinary perspective,* pp. ۳۵-۵۰,Dordrecht: Kluwer, ۲۰۰۲.

[۷۰]   J. L. Mackie, *The cement of the universe: A study of causation*: Oxford: Oxford University Press, ۱۹۸۰.

[۷۱]   Aristotle, Ed., *Physics* Oxford, UK Oxford University Press, ۱۹۹۶, p.^pp. Pages.

[۷۲]   C. Barrière, "Hierarchical refinement and representation of the causal relation," *Terminology,* vol. ۸, pp. ۹۱-۱۱۱, ۲۰۰۲.

[۷۳]   J. Aitchison, et al., Thesaurus construction and use: a practical manual: Routledge, ۲۰۰۰.

[۷۴]   C. A. Bean, "The semantics of hierarchy: Explicit parent-child relationships in MeSH tree structures," in *Proceedings of the ۵th International ISKO Conference, Wurzburg, Germany*, ۱۹۹۸.

[۷۵]   S. G. D. Clarke, "Thesaural relationships," Relationships in the organization of knowledge. Dordrecht: Kluwer, pp. ۳۷-۵۱, ۲۰۰۱.

[۷۶]   J. L. Milstead, "Standards for relationships between subject indexing terms," *Relationships in the organization of knowledge,* pp. ۵۳-۶۶, ۲۰۰۱.

[۷۷]   *http://www.aaai.org/AITopics/html/ontol.html*.

[۷۸]   N. Kambhatla, "Combining lexical, syntactic, and semantic features with maximum entropy models for extracting relations," in *ACL۰۴*, ۲۰۰۴.

[۷۹]   D. Zelenko*, et al.*, "Kernel Methods for Relation Extraction," *Machine Learning Research,* vol. ۳, pp. ۱۰۸۳-۱۱۰۶, ۲۰۰۳.

[۸۰]   H. Varian, "Bootstrap Tutorial," *Mathematica* vol. ۹, pp. ۷۶۸-۷۷۵, ۲۰۰۵.

[۸۱]   A. C. Davison and D. Hinkley, *Bootstrap Methods and their Application*: Cambridge: Cambridge Series in Statistical and Probabilistic Mathematics, ۲۰۰۶.

[۸۲]   C. F. J. Wu, "Jackknife, bootstrap and other resampling methods in regression analysis " *Annals of Statistics,* vol. ۱۴, pp. ۱۲۶۱-۱۳۵۰, ۱۹۸۶.

[۸۳]   Z. GuoDong*, et al.*, "Exploring various knowledge in relation extraction," in ۴۳*rd Annual Meeting on Association for Computational Linguistics*, ۲۰۰۲, pp. ۴۱۹-۴۴۴.

[۸۴]   S. Zhao and R. Grishman, "Extracting relations with integrated information using kernel methods," in ۴۳*rd Annual Meeting on Association for Computational Linguistics*, ۲۰۰۵, pp. ۴۱۹-۴۲۶.

[۸۵]   H. Lodhi*, et al.*, "Text classification using string kernels," *Machine Learning Research* pp. ۴۱۹-۴۴۴, ۲۰۰۲.

[۸۶]   R. C. Bunescu and R. J. Mooney, "Subsequence kernels for relation extraction," in *Information Processing Systems,NIPS۰۵*, Vancouver, British Columbia, Canada, ۲۰۰۵b.

[۸۷]   A. Culotta and J. Sorensen, "Dependency tree kernels for relation extraction," in ۴۲*nd Annual Meeting on Association for Computational Linguistics*, USA, ۲۰۰۴, p. ۴۲۳.

[۸۸]   A. Blum and T. Mitchell, "Combining labeled and unlabeled data with co-training," *Computational Learning Theory,* pp. ۹۲-۱۰۰, ۱۹۹۸.

[۸۹]   D. Yarowsky, "Unsupervised word sense disambiguation rivaling supervised methods," in ۳۳*rd conference on Association for Computational Linguistics*, USA, ۱۹۹۵, pp. ۱۸۹-۱۹۶.

[۹۰]   S. Brin, "Extracting patterns and relations from the world wide web," in *Extending Database Technology, EDBT '۹۸*, ۱۹۹۸.

[۹۱]   E. Agichtein and L. Gravano, "Snowball: Extracting relations from large plain-text collections," *Fifth ACM International Conference on Digital Libraries,* ۲۰۰۰.

[۹۲]   O. Etzioni*, et al.*, "Unsupervised Named-Entity Extraction from theWeb: An Experimental Study," *Artificial Intelligence* pp. ۱۹۱-۱۳۴, ۲۰۰۵.

[۹۳]   M. Banko*, et al.*, "Open information extraction from the web," in ۲۰*th International Joint Conference on Artificial Intelligence*, Hyderabad, India, ۲۰۰۷.

[۹۴]   D. E. Appelt, "Introduction to information extraction," *Ai Communications,* vol. ۱۲, pp. ۱۶۱-۱۷۲, ۱۹۹۹.

[۹۵]   C. Berrut, "Indexing medical reports: the RIME approach," *Information Processing & Management,* vol. ۲۶, pp. ۹۳-۱۰۹, ۱۹۹۰.

[۹۶]   C.-H. Chang and S.-C. Lui, "IEPAD: information extraction based on pattern discovery," in *Proceedings of the ۱۰th international conference on World Wide Web*, ۲۰۰۱, pp. ۶۸۱-۶۸۸.

[۹۷] J.-T. Kim and D. I. Moldovan, "Acquisition of linguistic patterns for knowledge-based information extraction," *Knowledge and Data Engineering, IEEE Transactions on,* vol. ۷, pp. ۷۱۳-۷۲۴, ۱۹۹۵.

[۹۸] E. Riloff, "Automatically generating extraction patterns from untagged text," in *Proceedings of the national conference on artificial intelligence*, ۱۹۹۶, pp. ۱۰۴۴-۱۰۴۹.

[۹۹] S. G. Soderland, "Learning text analysis rules for domain-specific natural language processing," Citeseer, ۱۹۹۷.

[۱۰۰] S. Soderland, "Learning information extraction rules for semi-structured and free text," *Machine learning,* vol. ۳۴, pp. ۲۳۳-۲۷۲, ۱۹۹۹.

[۱۰۱] L. Liu*, et al.*, "XWRAP: An XML-enabled wrapper construction system for web information sources," in *Data Engineering, ۲۰۰۰. Proceedings. ۱۶th International Conference on*, ۲۰۰۰, pp. ۶۱۱-۶۲۱.

[۱۰۲] T. Furche*, et al.*, "OXPath: A language for scalable data extraction, automation, and crawling on the deep web," *The VLDB Journal,* vol. ۲۲, pp. ۴۷-۷۲, ۲۰۱۳.

[۱۰۳] M. E. Califf and R. J. Mooney, "Bottom-up relational learning of pattern matching rules for information extraction," *The Journal of Machine Learning Research,* vol. ۴, pp. ۱۷۷-۲۱۰, ۲۰۰۳.

[۱۰۴] F. Kokkoras*, et al.*, "DEiXTo: a web data extraction suite," in *Proceedings of the ۶th Balkan Conference in Informatics*, ۲۰۱۳, pp. ۹-۱۲.

[۱۰۵] H. Chen*, et al*., "Textrous!: Extracting Semantic Textual Meaning from Gene Sets," *PloS one,* vol. ۸, p. e۶۲۶۶۵, ۲۰۱۳.

[۱۰۶] R. Chowdhary*, et al.*, "PIMiner: a web tool for extraction of protein interactions from biomedical literature," *International Journal of Data Mining and Bioinformatics,* vol. ۷, pp. ۴۵۰-۴۶۲, ۲۰۱۳.

[۱۰۷] J. L. Hong, "Data extraction for deep web using wordnet," *Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE Transactions on,* vol. ۴۱, pp. ۸۵۴-۸۶۸, ۲۰۱۱.

[۱۰۸]   R. Girju, et al., "Learning semantic constraints for the automatic discovery of part-whole relations," in Proceedings of the ۲۰۰۳ Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology-Volume ۱, ۲۰۰۳, pp. ۱-۸.

[۱۰۹]   J. R. Quinlan, *C۴. ۵: programs for machine learning* vol. ۱: Morgan kaufmann, ۱۹۹۳.

[۱۱۰]   R. Girju and D. I. Moldovan, "Text Mining for Causal Relations," in *FLAIRS Conference*, ۲۰۰۲, pp. ۳۶۰-۳۶۴.

[۱۱۱]   H. Alani*, et al.*, "Automatic ontology-based knowledge extraction from web documents," *Intelligent Systems, IEEE,* vol. ۱۸, pp. ۱۴-۲۱, ۲۰۰۳.

[۱۱۲]   H. Dyvik, "Translations as semantic mirrors: from parallel corpus to wordnet," *Language and computers,* vol. ۴۹, pp. ۳۱۱-۳۲۶, ۲۰۰۴.

[۱۱۳]   N. Calzolari and E. Picchi, "Acquisition of semantic information from an on-line dictionary," in *Proceedings of the ۱۲th conference on Computational linguistics-Volume ۱*, ۱۹۸۸, pp. ۸۷-۹۲.

[۱۱۴]   O. Bodenreider, "The unified medical language system (UMLS): integrating biomedical terminology," *Nucleic acids research,* vol. ۳۲, pp. D۲۶۷-D۲۷۰, ۲۰۰۴.

[۱۱۵]   B. L. Humphreys*, et al.*, "The Unified Medical Language System An Informatics Research Collaboration," *Journal of the American Medical Informatics Association,* vol. ۵, pp. ۱-۱۱, ۱۹۹۸.

[۱۱۶]   C. Blake and W. Pratt, "Better rules, fewer features: a semantic approach to selecting features from text," in *Data Mining, ۲۰۰۱. ICDM ۲۰۰۱, Proceedings IEEE International Conference on*, ۲۰۰۱, pp. ۵۹-۶۶.

[۱۱۷]   C.-H. Lee*, et al.*, "Ontology learning for medical digital libraries," in *Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access*, ed: Springer, ۲۰۰۳, pp. ۳۰۲-۳۰۵.

[۱۱۸]   T. C. Rindflesch and A. R. Aronson, "Semantic processing for enhanced access to biomedical knowledge," *Real World Semantic Web Applications,* pp. ۱۵۷-۱۷۲, ۲۰۰۲.

[۱۱۹]   P. Srinivasan and T. Rindflesch, "Exploring text mining from MEDLINE," in *Proceedings of the AMIA Symposium*, ۲۰۰۲, p. ۷۲۲.

[۱۲۰]   T. C. Rindflesch*, et al.*, "Extracting molecular binding relationships from biomedical text," in *Proceedings of the sixth conference on Applied natural language processing*, ۲۰۰۰, pp. ۱۸۸-۱۹۵.

[۱۲۱]   T. C. Rindflesch*, et al.*, "Semantic relations asserting the etiology of genetic diseases," in *AMIA Annual Symposium Proceedings*, ۲۰۰۳, p. ۵۵۴.

[۱۲۲]   C. Nedellec, "Corpus-based learning of semantic relations by the ILP system, Asium," in *Learning language in logic*, ed: Springer, ۲۰۰۰, pp. ۲۵۹-۲۷۸.

[۱۲۳]   H. Li and N. Abe, "Generalizing case frames using a thesaurus and the MDL principle," *Computational Linguistics,* vol. ۲۴, pp. ۲۱۷-۲۴۴, ۱۹۹۸.

[۱۲۴]   F. Pereira, et al., "Distributional clustering of English words," in Proceedings of the ۳۱st annual meeting on Association for Computational Linguistics, ۱۹۹۳, pp. ۱۸۳-۱۹۰.

[۱۲۵]   L. Wanner, "Towards automatic fine-grained semantic classification of verb-noun collocations," *Natural Language Engineering,* vol. ۱۰, pp. ۹۵-۱۴۳, ۲۰۰۴.

[۱۲۶]   I. Mani and M. T. Maybury, *Advances in automatic text summarization*: the MIT Press, ۱۹۹۹.

[۱۲۷]   Y. C. Wang*, et al.*, "Relational thesauri in information retrieval," *Journal of the American Society for Information Science,* vol. ۳۶, pp. ۱۵-۲۷, ۱۹۸۵.

[۱۲۸]   M. W. Evens, Relational models of the lexicon: Representing knowledge in semantic networks: Cambridge University Press, ۲۰۰۹.

[۱۲۹]   K. S. Jones and D. M. Jackson, "The use of automatically-obtained keyword classifications for information retrieval," *Information Storage and Retrieval,* vol. ۵, pp. ۱۷۵-۲۰۱, ۱۹۷۰.

[۱۳۰]   H. J. Peat and P. Willett, "The limitations of term co-occurrence data for query expansion in document retrieval systems," *JASIS,* vol. ۴۲, pp. ۳۷۸-۳۸۳, ۱۹۹۱.

[۱۳۱]   H. Chen and K. J. Lynch, "Automatic construction of networks of concepts characterizing document databases," *Systems, Man and Cybernetics, IEEE Transactions on,* vol. ۲۲, pp. ۸۸۵-۹۰۲, ۱۹۹۲.

[۱۳۲]   G. Grefenstette, "Use of syntactic context to produce term association lists for text retrieval," in *Proceedings of the ۱۵th annual international ACM SIGIR conference on Research and development in information retrieval*, ۱۹۹۲, pp. ۸۹-۹۷.

[۱۳۳]   N. Belkin*, et al.*, "Relevance feedback versus local context analysis as term suggestion devices," ۲۰۰۰.

[۱۳۴]   K. L. Kwok and M. Chan, "Improving two-stage ad-hoc retrieval for short queries," in Proceedings of the ۲۱st annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۹۸, pp. ۲۵۰-۲۵۶.

[۱۳۵]   C. Zhai and J. Lafferty, "A study of smoothing methods for language models applied to information retrieval," *ACM Transactions on Information Systems (TOIS),* vol. ۲۲, pp. ۱۷۹-۲۱۴, ۲۰۰۴.

[۱۳۶]   Y. Xu, et al., "Query dependent pseudo-relevance feedback based on wikipedia," in Proceedings of the ۳۲nd international ACM SIGIR conference on Research and development in information retrieval, ۲۰۰۹, pp. ۵۹-۶۶.

[۱۳۷]   C. Buckley*, et al.*, "New retrieval approaches using SMART: TREC ۴," in *Proceedings of the Fourth Text REtrieval Conference (TREC-۴)*, ۱۹۹۵, pp. ۲۵-۴۸.

[۱۳۸]   J. Xu and W. B. Croft, "Query expansion using local and global document analysis," in Proceedings of the ۱۹th annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۹۶, pp. ۴-۱۱.

[۱۳۹]   J. Xu and W. B. Croft, "Improving the effectiveness of information retrieval with local context analysis," *ACM Transactions on Information Systems (TOIS),* vol. ۱۸, pp. ۷۹-۱۱۲, ۲۰۰۰.

[۱۴۰] H. Fang, "A Re-examination of Query Expansion Using Lexical Resources," in *ACL*, ۲۰۰۸, pp. ۱۳۹-۱۴۷.

[۱۴۱] Z. Gong*, et al.*, "Business information query expansion through semantic network," *Enterprise Information Systems,* vol. ۴, pp. ۱-۲۲, ۲۰۱۰.

[۱۴۲] J. Bhogal*, et al.*, "A review of ontology based query expansion," *Information Processing & Management,* vol. ۴۳, pp. ۸۶۶-۸۸۶, ۲۰۰۷.

[۱۴۳] E. A. Fox, "Lexical relations: Enhancing effectiveness of information retrieval systems," in *ACM SIGIR Forum*, ۱۹۸۰, pp. ۵-۳۶.

[۱۴۴] R. Rada and E. Bicknell, "Ranking documents with a thesaurus," *Journal of the American Society for Information Science,* vol. ۴۰, pp. ۳۰۴-۳۱۰, ۱۹۸۹.

[۱۴۵] R. Rada*, et al.*, "Document ranking using an enriched thesaurus," *Journal of Documentation,* vol. ۴۷, pp. ۲۴۰-۲۵۳, ۱۹۹۱.

[۱۴۶] T.-L. Wan*, et al.*, "Experiments with automatic indexing and a relational thesaurus in a Chinese information retrieval system," *Journal of the American Society for Information Science,* vol. ۴۸, pp. ۱۰۸۶-۱۰۹۶, ۱۹۹۷.

[۱۴۷] H. O. A. Salem, "A microcomputer-based arabic bibliographic information retrieval system with relational thesauri (arabic-irs)," Illinois Institute of Technology, ۱۹۹۲.

[۱۴۸] J. Greenberg, "Automatic query expansion via lexical–semantic relationships," *Journal of the American Society for Information Science and Technology,* vol. ۵۲, pp. ۴۰۲-۴۱۵, ۲۰۰۱.

[۱۴۹] E. M. Voorhees, "Query expansion using lexical-semantic relations," in *SIGIR '۹۴*, ۱۹۹۴, pp. ۶۱-۶۹.

[۱۵۰] A. P. Natsev*, et al.*, "Semantic concept-based query expansion and re-ranking for multimedia retrieval," in *Proceedings of the ۱۵th international conference on Multimedia*, ۲۰۰۷, pp. ۹۹۱-۱۰۰۰.

[۱۵۱]   K. Collins-Thompson and J. Callan, "Query expansion using random walk models," in *Proceedings of the ۱۴th ACM international conference on Information and knowledge management*, ۲۰۰۵, pp. ۷۰۴-۷۱۱.

[۱۵۲]   R. Mandala*, et al.*, "Combining multiple evidence from different types of thesaurus for query expansion," in *Proceedings of the ۲۲nd annual international ACM SIGIR conference on Research and development in information retrieval*, ۱۹۹۹, pp. ۱۹۱-۱۹۷.

[۱۵۳]   J. Kristensen and K. JAÊVERLIN, "The effectiveness of a searching thesaurus in free-text searching in a full-text database," *International Classification,* vol. ۱۷, pp. ۷۷-۸۴, ۱۹۹۰.

[۱۵۴]   J. Kristensen, "Expanding end-users' query statements for free text searching with a search-aid thesaurus," *Information Processing & Management,* vol. ۲۹, pp. ۷۳۳-۷۴۴, ۱۹۹۳.

[۱۵۵]   J. Kekäläinen and K. Järvelin, "The impact of query structure and query expansion on retrieval performance," in *Proceedings of the ۲۱st annual international ACM SIGIR conference on Research and development in information retrieval*, ۱۹۹۸, pp. ۱۳۰-۱۳۷.

[۱۵۶]   W. B. Croft, et al., "The use of phrases and structured queries in information retrieval," in Proceedings of the ۱۴th annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۹۱, pp. ۳۲-۴۵.

[۱۵۷]   C. Carpineto and G. Romano, "A survey of automatic query expansion in information retrieval," *ACM Computing Surveys (CSUR),* vol. ۴۴, p. ۱, ۲۰۱۲.

[۱۵۸]   G. Ruge*, et al.*, "Effectiveness and efficiency in natural language processing for large amounts of text," *Journal of the American Society for Information Science,* vol. ۴۲, pp. ۴۵۰-۴۵۶, ۱۹۹۱.

[۱۵۹]   F. M. Chowdhury*, et al.*, "A study on dependency tree kernels for automatic extraction of protein-protein interaction," in *Proceedings of BioNLP ۲۰۱۱ Workshop*, ۲۰۱۱, pp. ۱۲۴-۱۳۳.

[۱۶۰]   M. Ciaramita and G. Attardi, "Dependency parsing with second-order feature maps and annotated semantic information," in *Trends in Parsing Technology*, ed: Springer, ۲۰۱۰, pp. ۸۷-۱۰۴.

[۱۶۱] F. Reichartz, *et al.*, "Dependency tree kernels for relation extraction from natural language text," in *Machine Learning and Knowledge Discovery in Databases*, ed: Springer, ۲۰۰۹, pp. ۲۷۰-۲۸۵.

[۱۶۲] A. F. Smeaton and C. Van Rijsbergen, "Experiments on incorporating syntactic processing of user queries into a document retrieval strategy," in *Proceedings of the ۱۱th annual international ACM SIGIR conference on Research and development in information retrieval*, ۱۹۸۸, pp. ۳۱-۵۱.

[۱۶۳] R. C. Schank, et al., "Conceptual information retrieval," in Proceedings of the ۳rd annual ACM conference on Research and development in information retrieval, ۱۹۸۰, pp. ۹۴-۱۱۶.

[۱۶۴] E. L. dos Santos, *et al.*, "Conceptual information retrieval," in *Advanced Distributed Systems*, ed: Springer, ۲۰۰۴, pp. ۱۳۷-۱۴۴.

[۱۶۵] R. Tong, et al., "Conceptual information retrieval using RUBRIC," in Proceedings of the ۱۰th annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۸۷, pp. ۲۴۷-۲۵۳.

[۱۶۶] F. Nishida and S. Takamatsu, "Structured-information extraction from patent-claim sentences," *Information Processing & Management,* vol. ۱۸, pp. ۱-۱۳, ۱۹۸۲.

[۱۶۷] L. F. Rau, "Knowledge organization and access in a conceptual information system," *Information Processing & Management,* vol. ۲۳, pp. ۲۶۹-۲۸۳, ۱۹۸۷.

[۱۶۸] M. L. Mauldin, "Retrieval performance in Ferret a conceptual information retrieval system," in *Proceedings of the ۱۴th annual international ACM SIGIR conference on Research and development in information retrieval*, ۱۹۹۱, pp. ۳۴۷-۳۵۵.

[۱۶۹] E. D. Liddy and S.-H. Myaeng, "TIPSTER Panel-DR-LINK's Linguistic-Conceptual Approach to Document Detection," in *TREC*, ۱۹۹۲, pp. ۱۱۳-۱۳۰.

[۱۷۰] X. Lu, *An application of case relations to document retrieval*: University Microfilms International (UMI), ۱۹۹۰.

[۱۷۱]   L. S. Gay and W. B. Croft, "Interpreting nominal compounds for information retrieval," *Information Processing & Management,* vol. ۲۶, pp. ۲۱-۳۸, ۱۹۹۰.

[۱۷۲]   G. Z. Liu, "Semantic vector space model: Implementation and evaluation," *Journal of the American Society for Information Science,* vol. ۴۸, pp. ۳۹۵-۴۱۷, ۱۹۹۷.

[۱۷۳]   C. S. Khoo*, et al.*, "Using cause-effect relations in text to improve information retrieval precision," *Information Processing & Management,* vol. ۳۷, pp. ۱۱۹-۱۴۵, ۲۰۰۱.

[۱۷۴]   K. Sparck Jones, "Further reflections on TREC," *Information Processing & Management,* vol. ۳۶, pp. ۳۷-۸۵, ۲۰۰۰.

[۱۷۵]   J. Perez-Carballo and T. Strzalkowski, "Natural language information retrieval: progress report," *Information Processing & Management,* vol. ۳۶, pp. ۱۵۵-۱۷۸, ۲۰۰۰.

[۱۷۶]   H. T. Dang*, et al.*, "Overview of the TREC ۲۰۰۷ Question Answering Track," in *TREC*, ۲۰۰۷, p. ۶۳.

[۱۷۷]   E. M. Voorhees, "Overview of TREC ۲۰۰۳," in *TREC*, ۲۰۰۳, pp. ۱-۱۳.

[۱۷۸]   M. A. Greenwood*, et al.*, "The University of Sheffield's TREC ۲۰۰۶ Q&A Experiments," in *TREC*, ۲۰۰۶.

[۱۷۹]   D. Paranjpe*, et al.*, "Passage Scoring for Question Answering via Bayesian Inference on Lexical Relations," in *TREC*, ۲۰۰۳, pp. ۳۰۵-۲۱۰.

[۱۸۰]   S. M. Harabagiu*, et al.*, "Answer Mining by Combining Extraction Techniques with Abductive Reasoning," in *TREC*, ۲۰۰۳, pp. ۳۷۵-۳۸۲.

[۱۸۱]   R. J. Gaizauskas*, et al.*, "The University of Sheffield's TREC ۲۰۰۳ Q&A Experiments," in *TREC*, ۲۰۰۳, pp. ۷۸۲-۷۹۰.

[۱۸۲]   K. C. Litkowski, "Syntactic Clues and Lexical Resources in Question-Answering," in *TREC*, ۲۰۰۰.

[۱۸۳]   K. C. Litkowski, "CL Research Experiments in TREC-۱۰ Question Answering," in *TREC*, ۲۰۰۱.

[۱۸۴] D. R. Radev*, et al.*, "Introduction to the special issue on summarization," *Computational Linguistics,* vol. ۲۸, pp. ۳۹۹-۴۰۸, ۲۰۰۲.

[۱۸۵] J. Kupiec, et al., "A trainable document summarizer," in Proceedings of the ۱۸th annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۹۵, pp. ۶۸-۷۳.

[۱۸۶] J. Goldstein*, et al.*, "Creating and evaluating multi-document sentence extract summaries," in *Proceedings of the ninth international conference on Information and knowledge management*, ۲۰۰۰, pp. ۱۶۵-۱۷۲.

[۱۸۷] E. Hovy and C.-Y. Lin, "Automated text summarization and the SUMMARIST system," in *Proceedings of a workshop on held at Baltimore, Maryland: October* ۱۳-۱۵*, ۱۹۹۸, ۱۹۹۸*, pp. ۱۹۷-۲۱۴.

[۱۸۸] B. Boguraev and C. Kennedy, "Salience-based content characterisation of text documents," in *Proceedings of the ACL*, ۱۹۹۷, pp. ۲-۹.

[۱۸۹] R. Barzilay and M. Elhadad, "Using lexical chains for text summarization," in *Proceedings of the ACL workshop on intelligent scalable text summarization*, ۱۹۹۷, pp. ۱۰-۱۷.

[۱۹۰] R. Barzilay and M. Elhadad, "Text summarizations with lexical chains," *Advances in Automatic Text Summarization,* pp. ۱۱۱-۱۲۱, ۲۰۰۹.

[۱۹۱] G. Salton*, et al.*, "Automatic text structuring and summarization," *Information Processing & Management,* vol. ۳۳, pp. ۱۹۳-۲۰۷, ۱۹۹۷.

[۱۹۲] D. Marcu, The theory and practice of discourse parsing and summarization: The MIT press, ۲۰۰۰.

[۱۹۳] S. Teufel and M. Moens, "Argumentative classification of extracted sentences as a first step towards flexible abstracting," *Advances in Automatic Text Summarization,* vol. ۱۵۵, p. ۱۷۱, ۱۹۹۹.

[۱۹۴] T. Strzalkowski, et al., "A robust practical text summarization," in Proceedings of AAAI Spring Symposium on Intelligent Text Summarization (to appear), ۱۹۹۸.

[۱۹۵]   D. R. Radev, "A common theory of information fusion from multiple text sources step one: cross-document structure," in *Proceedings of the ۱st SIGdial workshop on Discourse and dialogue-Volume ۱۰*, ۲۰۰۰, pp. ۷۴-۸۳.

[۱۹۶]   K. McKeown and D. R. Radev, "Generating summaries of multiple news articles," in Proceedings of the ۱۸th annual international ACM SIGIR conference on Research and development in information retrieval, ۱۹۹۵, pp. ۷۴-۸۲.

[۱۹۷]   M. White, et al., "Multidocument summarization via information extraction," in Proceedings of the first international conference on Human language technology research, ۲۰۰۱, pp. ۱-۷.

[۱۹۸]   D. Fum*, et al.*, "Evaluating Importance: A Step Towards Text Summarization," in *IJCAI*, ۱۹۸۵, pp. ۸۴۰-۸۴۴.

[۱۹۹]   L. F. Rau*, et al.*, "Information extraction and text summarization using linguistic knowledge acquisition," *Information Processing & Management,* vol. ۲۵, pp. ۴۱۹-۴۲۸, ۱۹۸۹.

[۲۰۰]   U. Hahn and U. Reimer, "Knowledge-based text summarization: Salience and generalization operators for knowledge base abstraction," *Advances in Automatic Text Summarization,* pp. ۲۱۵-۲۳۲, ۱۹۹۹.

[۲۰۱]   C. J. Fillmore, "The case for Case," *Universals in linguistic theory,* pp. New York: Holt, Rinehart and Wilson, ۱۹۶۸.

[۲۰۲]   H. L. Somers, *Valency and case in computational linguistics*. Edinburgh: Edinburgh University Press, ۱۹۸۷.

[۲۰۳]   C. H. Papadimitriou*, et al.*, "Latent semantic indexing: a probabilistic analysis," in *seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems*, ۱۹۹۸.

[۲۰۴]   H. T, "Probabilistic latent semantic analysis," in *۱۵th Conference of Uncertainty in Artificial Intelligence*, Stockholm, ۱۹۹۹.

[۲۰۵]   D. L. Lee*, et al.*, "Document ranking and the vector-space model," *Software, IEEE,* vol. ۱۴, pp. ۶۷-۷۵, ۱۹۹۷.

[۲۰۶]   N. Polettini, "The vector space model in information retrieval-term weighting problem," *Entropy,* pp. ۱-۹, ۲۰۰۴.

[۲۰۷]   E. Greengrass, "Information retrieval: A survey," ۲۰۰۰.

[۲۰۸]   P. Nakov, "Getting Better Results with Latent Semantic Indexing," in *Proceedings of the Students Presentations at ESSLLI*, ۲۰۰۰, pp. ۱۵۶-۱۶۶.

[۲۰۹]   J. H. Hayes*, et al.*, "Advancing candidate link generation for requirements tracing: The study of methods," *Software Engineering, IEEE Transactions on,* vol. ۳۲, pp. ۴-۱۹, ۲۰۰۶.

[۲۱۰]   B. Sarwar*, et al.*, "Incremental singular value decomposition algorithms for highly scalable recommender systems," in *Fifth International Conference on Computer and Information Science*, ۲۰۰۲, pp. ۲۷-۲۸.

[۲۱۱]   G. Strang, *Introduction to linear algebra*: SIAM, ۲۰۰۳.

[۲۱۲]   H.-H. Lin, "Introduction to linear algebra," *notes,* ۲۰۱۰.

[۲۱۳]   P. Wiemer-Hastings, "How latent is latent semantic analysis?," in *Proceedings of the ۱۶th international joint conference on Artificial intelligence-Volume ۲*, ۱۹۹۹, pp. ۹۳۲-۹۳۷.

[۲۱۴]   A. Kuhn*, et al.*, "Semantic clustering: Identifying topics in source code," *Information and Software Technology,* vol. ۴۹, pp. ۲۳۰-۲۴۳, ۲۰۰۷.

[۲۱۵]   A. Kontostathis*, et al.*, "Identification of critical values in latent semantic indexing," in *Foundations of Data Mining and Knowledge Discovery*, ed: Springer, ۲۰۰۵, pp. ۳۳۳-۳۴۶.

[۲۱۶]   E. Jessup and J. Martin, "Taking a new look at the latent semantic analysis approach to information retrieval," *Computational information retrieval,* pp. ۱۲۱-۱۴۴, ۲۰۰۱.

[۲۱۷]   T. K. Landauer and S. T. Dumais, "A solution to Plato's problem: The latent semantic analysis theory of acquisition, induction, and representation of knowledge," *Psychological Review,* vol. ۱۰۴, p. ۲۱۱, ۱۹۹۷.

[۲۱۸]   J. Kupiec*, et al.*, "A trainable document summarizer," presented at the Proceedings of the ۱۸th annual international ACM SIGIR conference on Research and development in information retrieval, Seattle, Washington, USA, ۱۹۹۵.

[۲۱۹]   W. T. Chuang and J. Yang, "Extracting sentence segments for text summarization: a machine learning approach," in *Proceedings of the ۲۳rd annual international ACM SIGIR conference on Research and development in information retrieval*, ۲۰۰۰, pp. ۱۵۲-۱۵۹.

[۲۲۰]   S. Fisher and B. Roark, "Query-focused summarization by supervised sentence ranking and skewed word distributions," in *Proceedings of the Document Understanding Conference, DUC-۲۰۰۶, New York, USA*, ۲۰۰۶.

[۲۲۱]   A. Fathi, "Criteriology of semantic association among Quran Verses," *Marifat Journal,* vol. ۱۶, pp. ۴۵-۶۶, ۲۰۰۹.