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#### Daniel Marcu

(Information Sciences Institute, University of Southern California)

Cambridge, MA: The MIT Press, 2000, xix+248 pp; hardbound, ISBN 0-262-13372-5, \$39.95

Reviewed by Udo Hahn Albert-Ludwigs-Universität Freiburg

Marcu's monograph is based on his Ph.D. thesis—research carried ment of Computer Science, University of Toronto—and subsequent the Information Sciences Institute, University of Southern Californ idea that discourse/rhetorical relations that connect text spans of be computed without a complete semantic analysis of sentences text segments. As an alternative, a formal specification of admissil provided, which constrains the range of possible semantic and fun between text spans and imposes strict well-formedness conditions structures. For effectively computing these text structures, main lexical cues and shallow text-parsing techniques are used. Comp formal and computational considerations, Marcu reports on variou intrinsic and extrinsic, in order to assess the strengths and weaproach and the generality of the principles it is based on. These mostly carried out on Scientific American, TREC, MUC, Wall Street corpora.

The book consists of three main parts. In the first part, linguist erties of coherent texts are discussed, with a focus on high-level d This theoretical framework serves, in the second part, as the bac oping discourse structure parsing algorithms that compute rhetoriworld free texts. The benefits of such algorithms for building a high

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summarization system are dealt with in the third part.

In the first part, the author factors out a set of assumptions t prominent approaches to discourse structure. So, consensus has bee can be segmented into nonoverlapping, elementary textual units, tions of different types link (elementary and complex) textual un that some textual units are more important to the writer's commi and goals than others, and that trees are a good approximation of the of most texts. These considerations lead to a compositionality cri that discourse relations that link two large text spans can be expl relations that hold between at least two of the most salient tex stituent spans. This notion then forms the basis for a first-order le that captures formal properties of valid text structures. Although t independent of the set of rhetorical relations actually considered, relation instantiation, a formal characterization of the structural specific to Rhetorical Structure Theory (RST) (Mann and Thomps on these formal considerations, the author discusses three (noning mic paradigms that compute some or all valid discourse structi of them employ model-theoretic techniques and encode the proble

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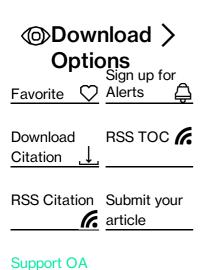
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