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Founded: 1974

2018 Impact

Factor: 1.319

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32

ISSN: 0891-2017

E-ISSN: 1530-9312

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# Weighted Deductive Parsing and Knuth's Algorithm

### Mark-Jan Nederhof

Posted Online March 13, 2006 https://doi.org/10.1162/089120103321337467

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Computational Linguistics Volume 29 | Issue 1 | March 2003 p.135-143



### **Abstract Authors**

We discuss weighted deductive parsing and consider the problem of finding the derivation with the lowest weight. We show that Knuth's generalization of Dijkstra's algorithm for the shortest-path problem offers a general method to solve this problem. Our approach is modular in the sense that Knuth's algorithm is formulated independently from the weighted deduction system.

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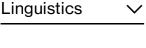
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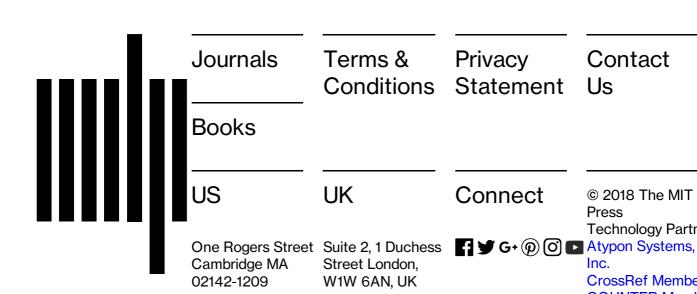
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