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Weighted Deductive Parsing and Knuth's Algorithm

Mark-Jan Nederhof

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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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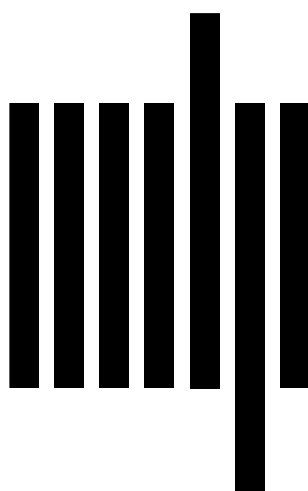
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