

Algorithmen zur Visualisierung von Graphen

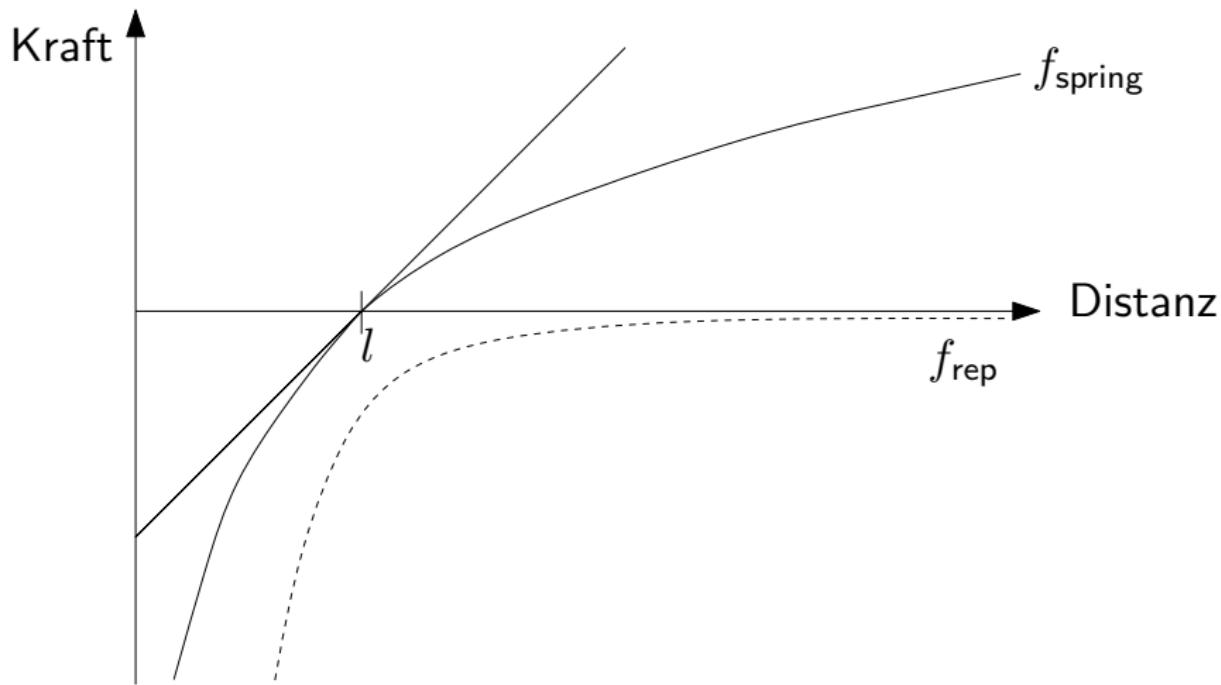
Kräftebasierte Verfahren – Teil 2

Vorlesung im Sommersemester 2009

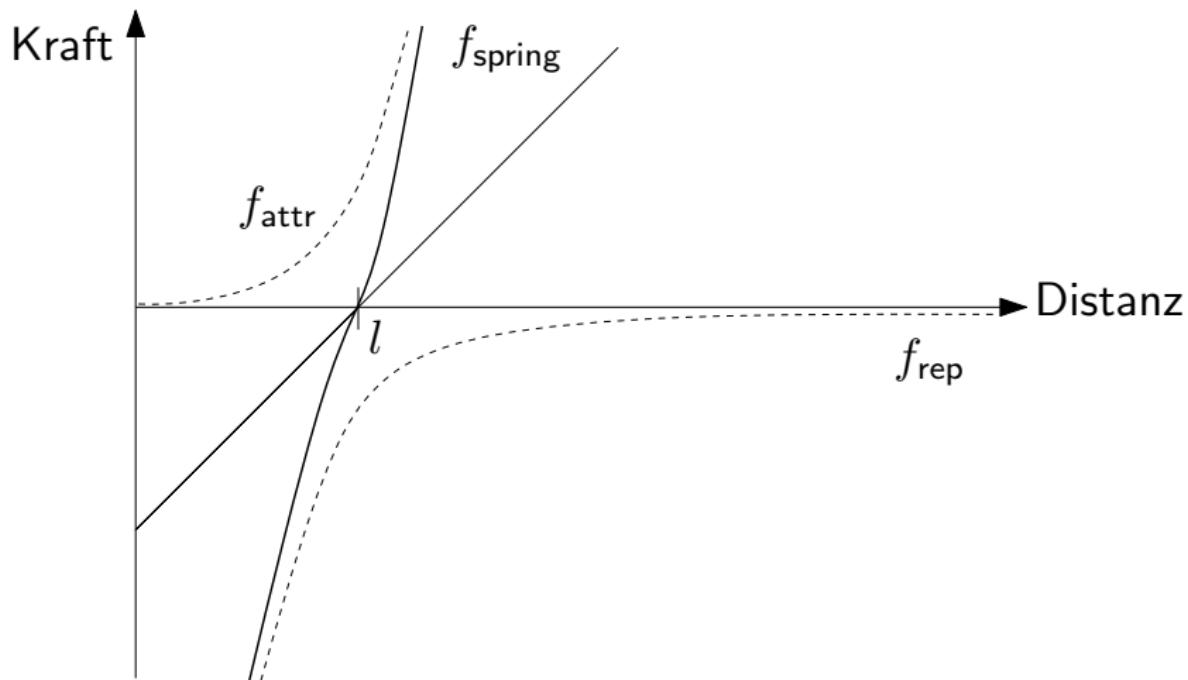
Martin Nöllenburg

30.04.2009

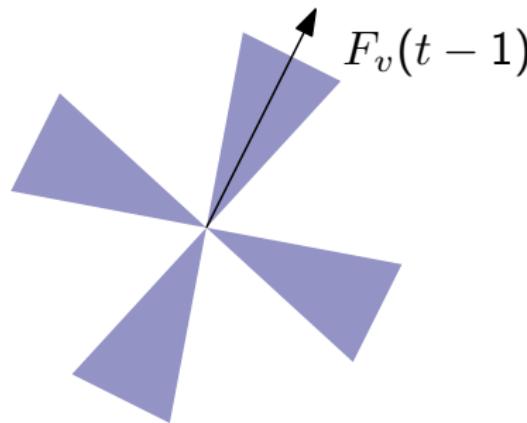
Kräftediagramm Spring-Embedder nach Eades (1984)



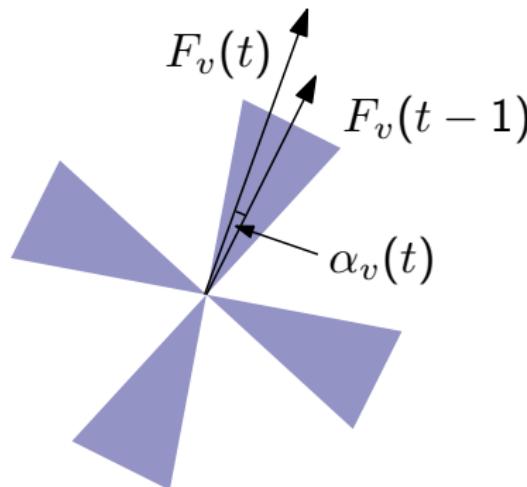
Kräftediagramm nach Fruchterman/Reingold (1991)



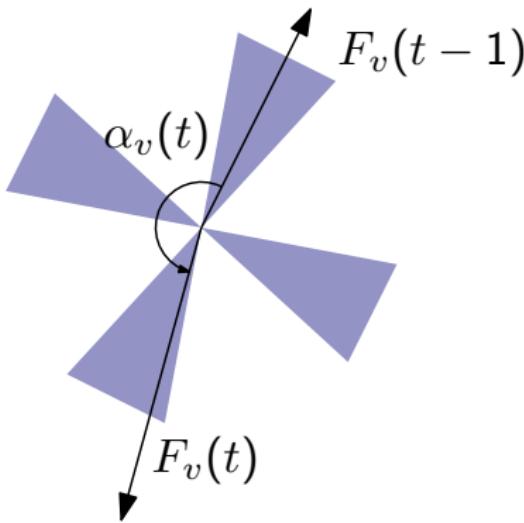
Adaptive Verschiebeweite



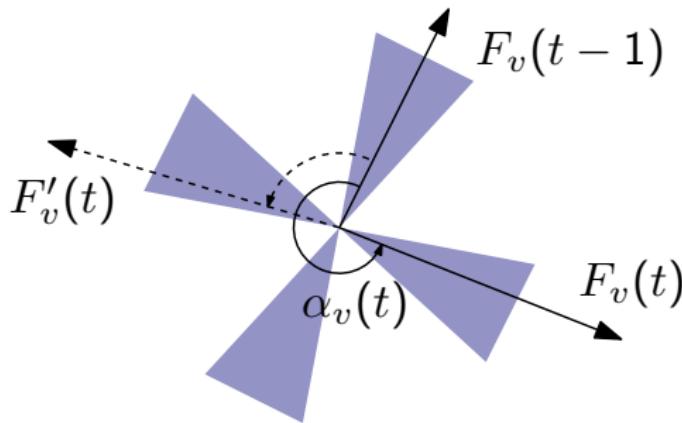
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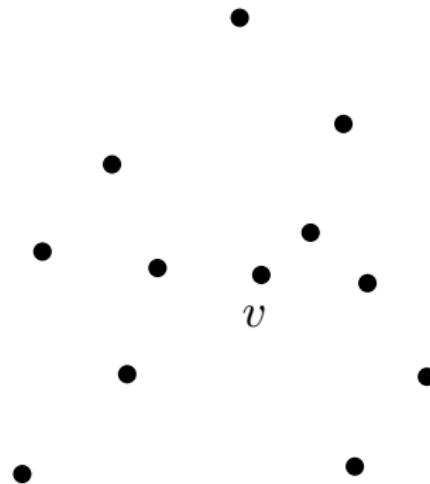
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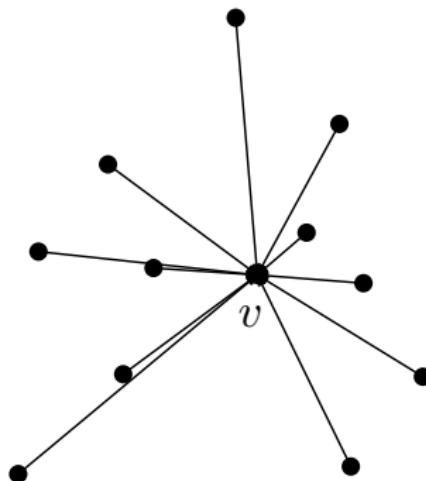
Adaptive Verschiebeweite



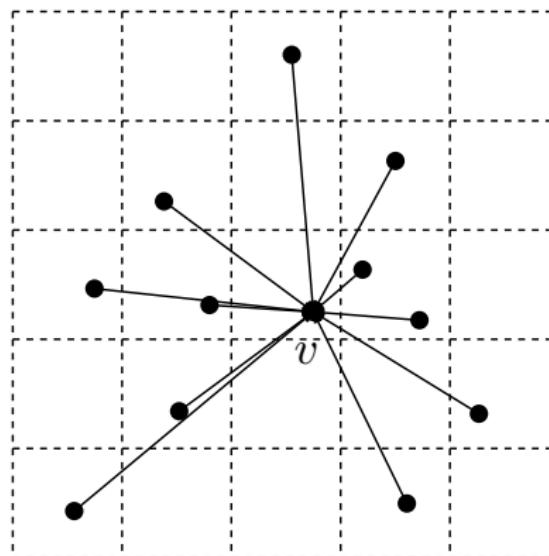
Gittertechnik



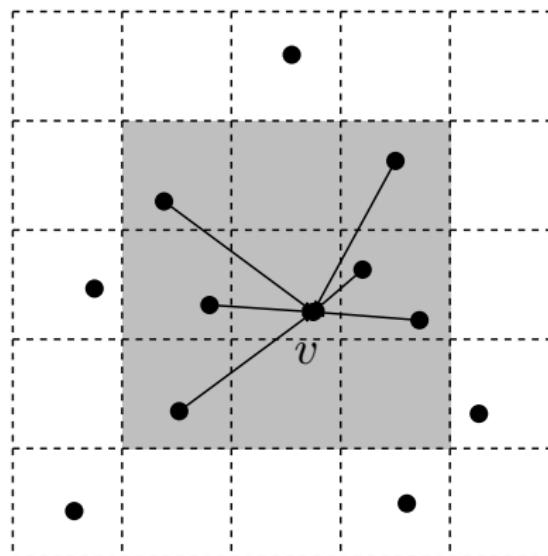
Gittertechnik



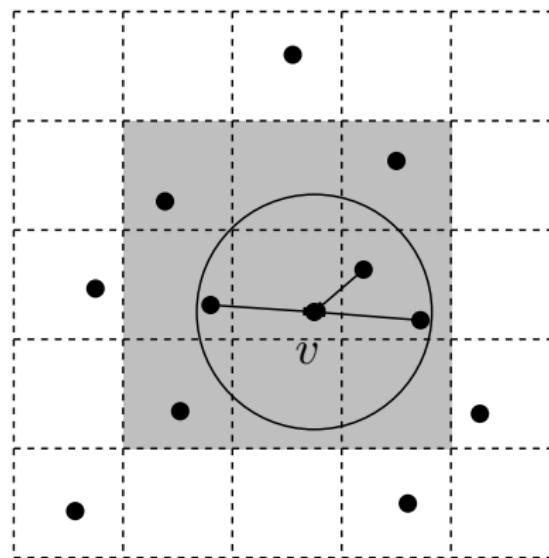
Gittertechnik



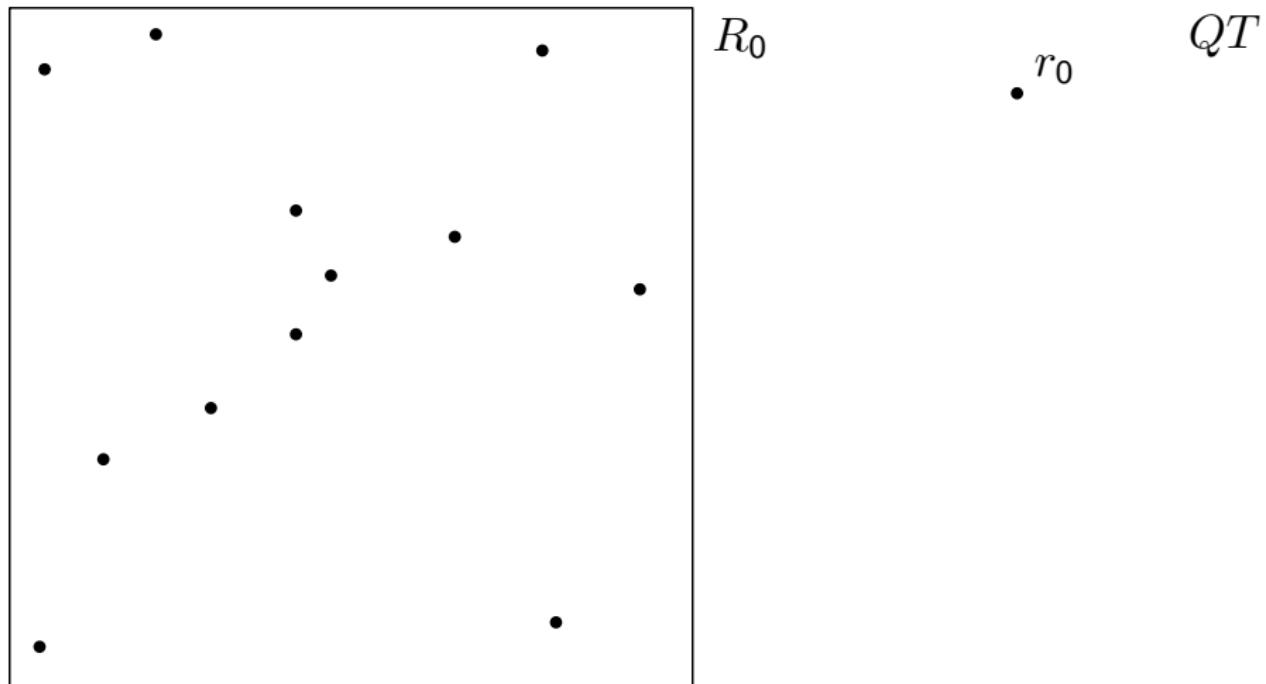
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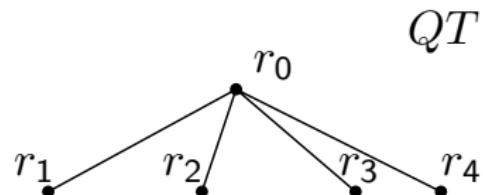
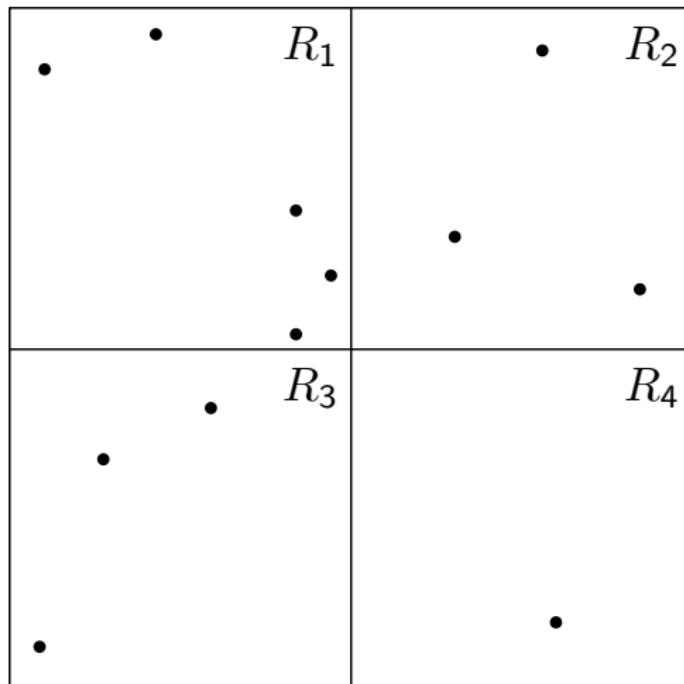
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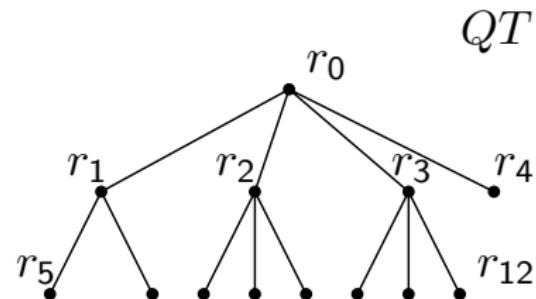
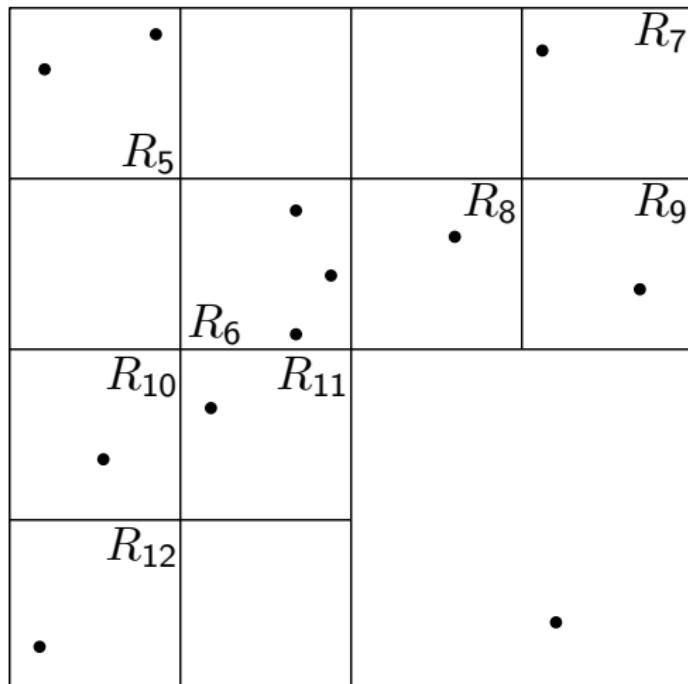
Quad-Tree



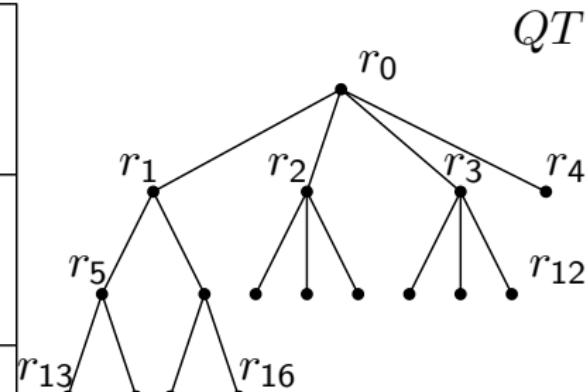
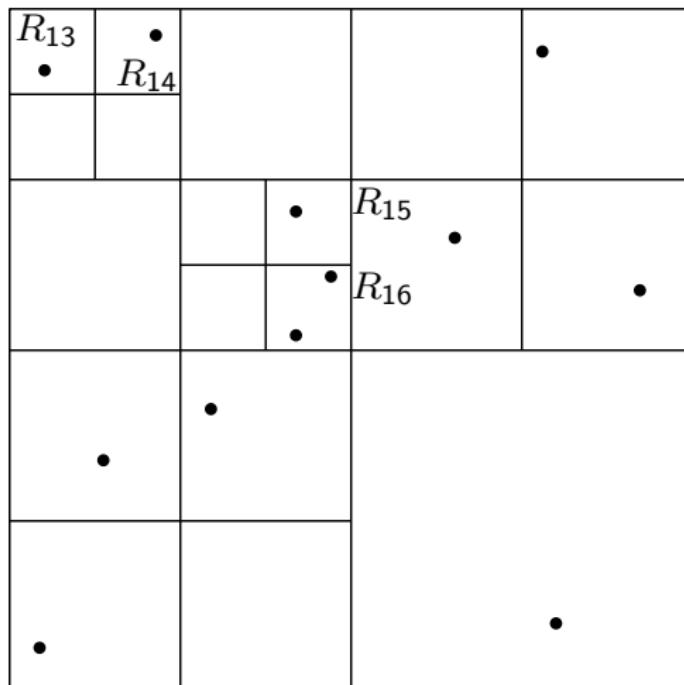
Quad-Tree



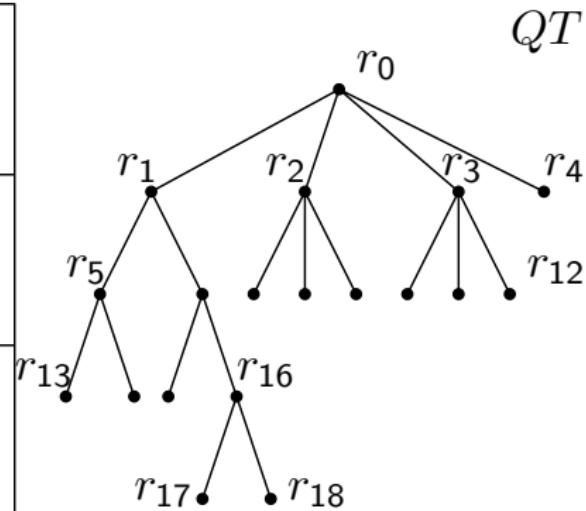
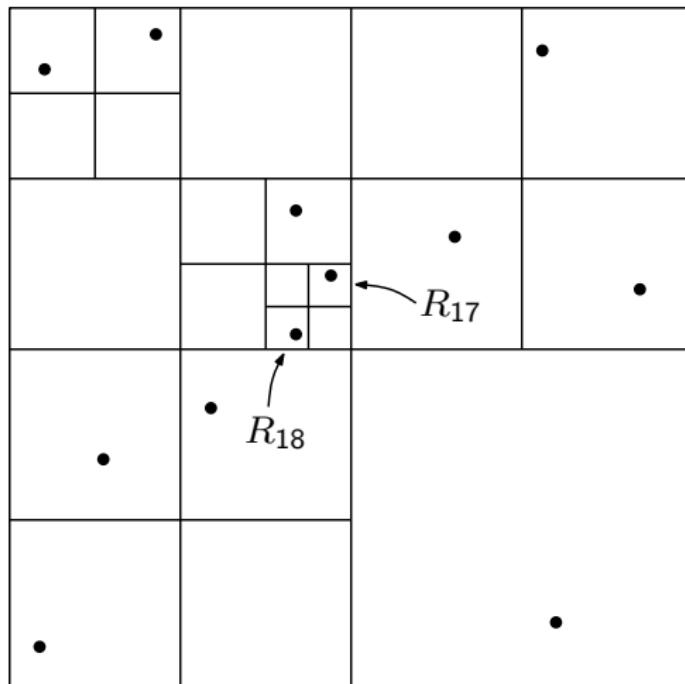
Quad-Tree



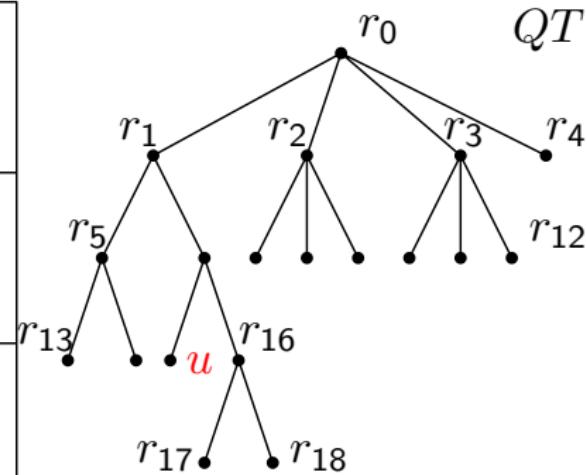
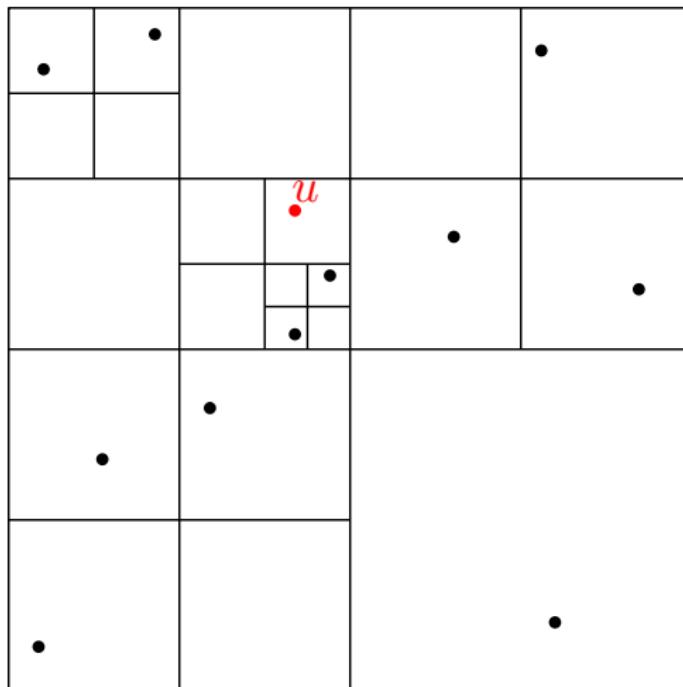
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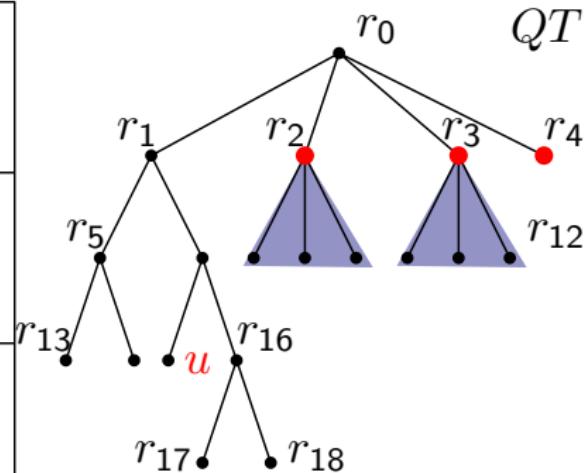
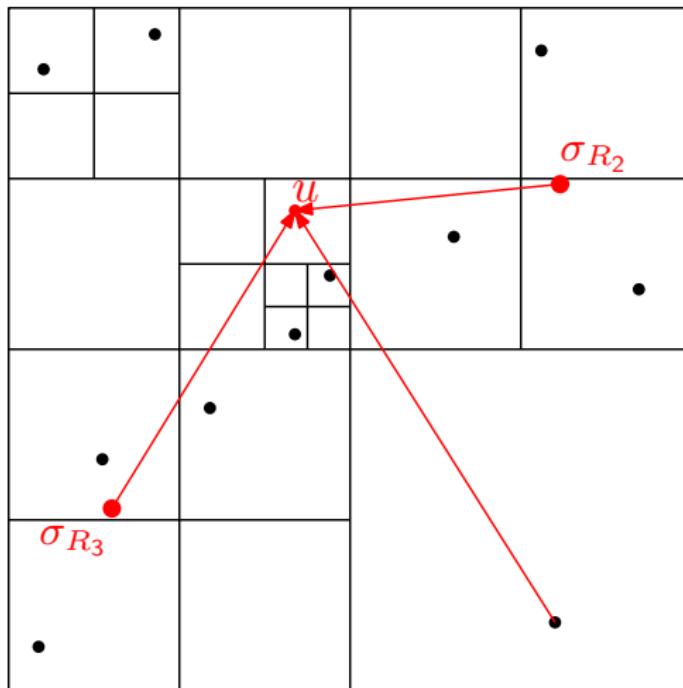
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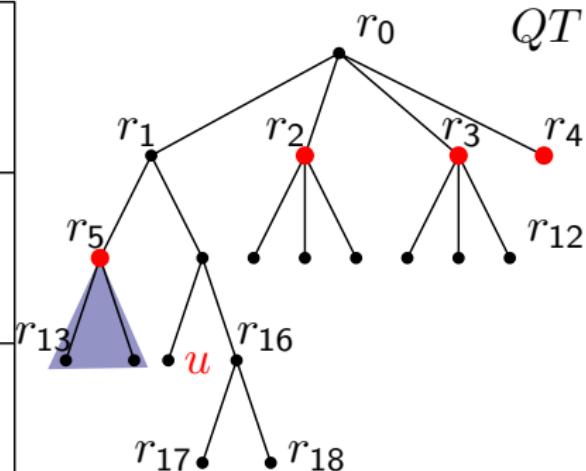
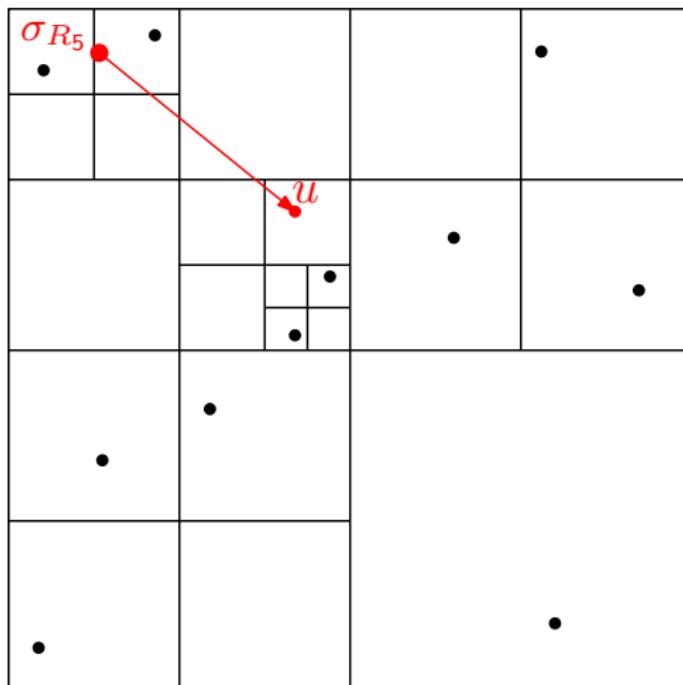
Berechnung abstoßende Kräfte



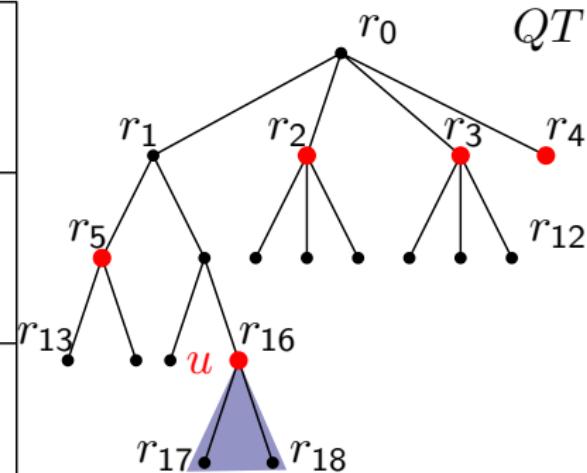
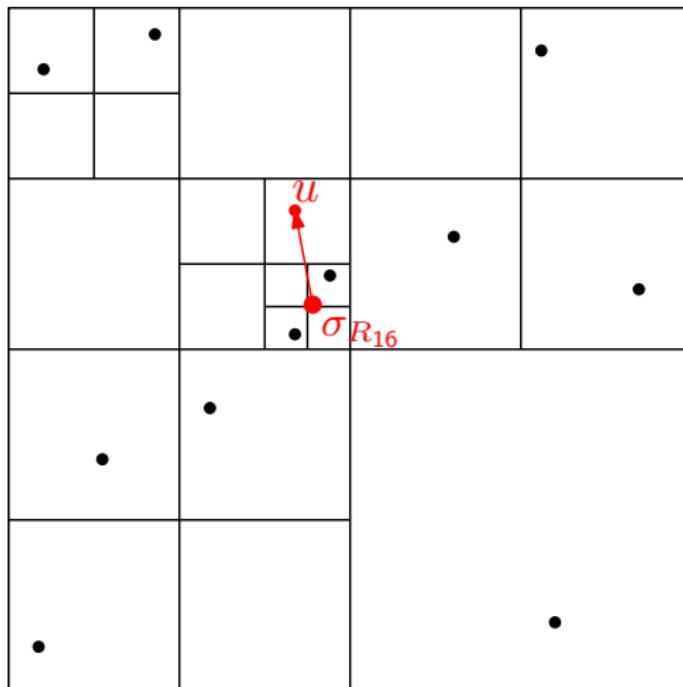
Berechnung abstoßende Kräfte



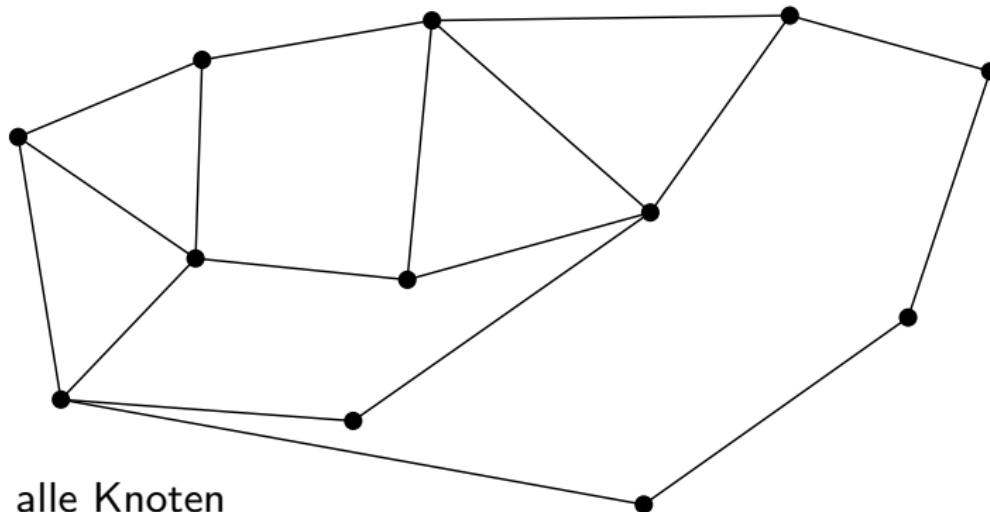
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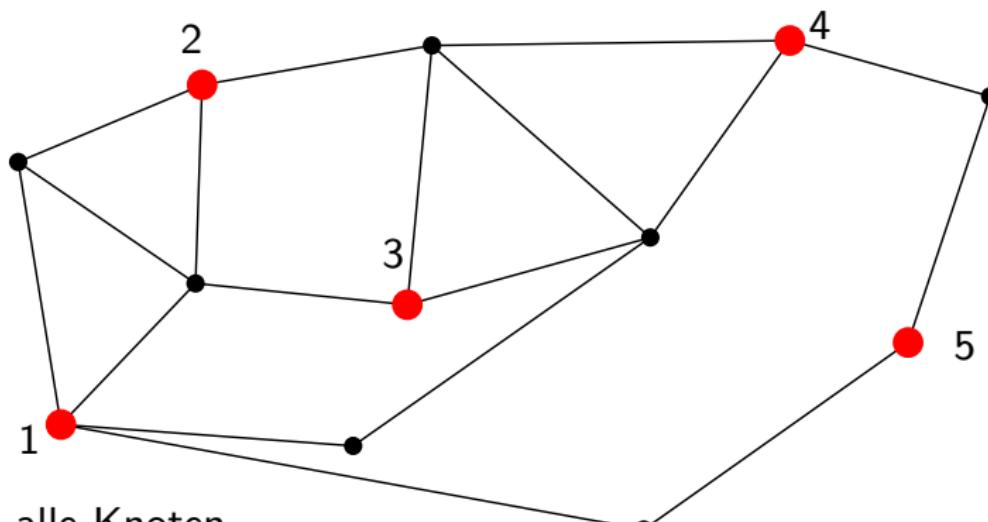


MIS-Vergrößerung



V_0 : alle Knoten

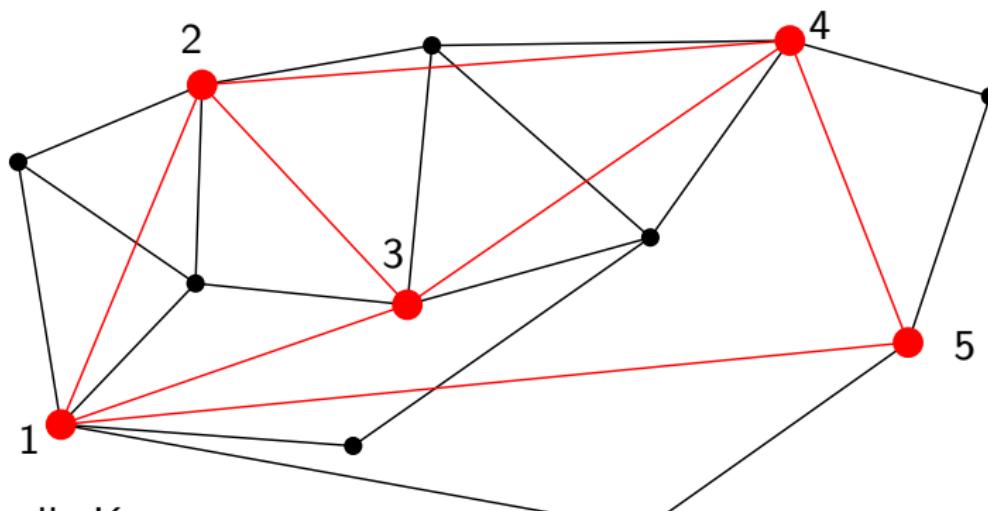
MIS-Vergrößerung



V_0 : alle Knoten

$V_1 = \{1, 2, 3, 4, 5\}$ (MIS in V_0)

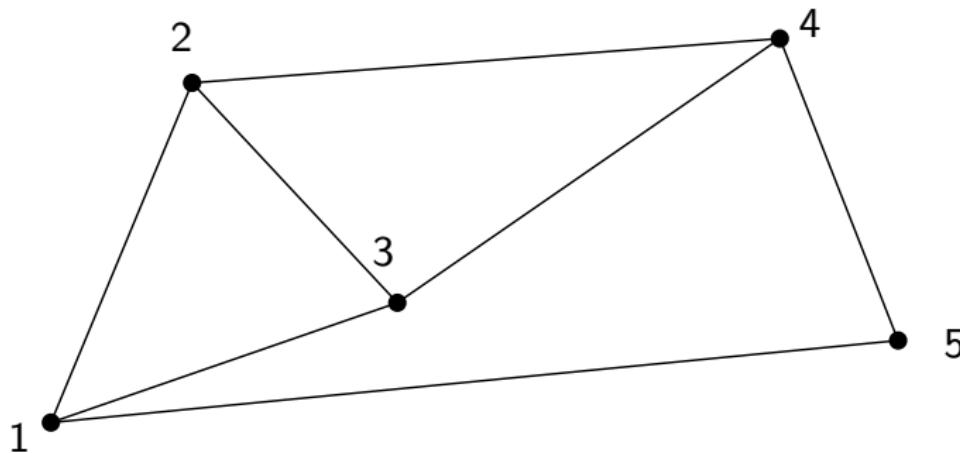
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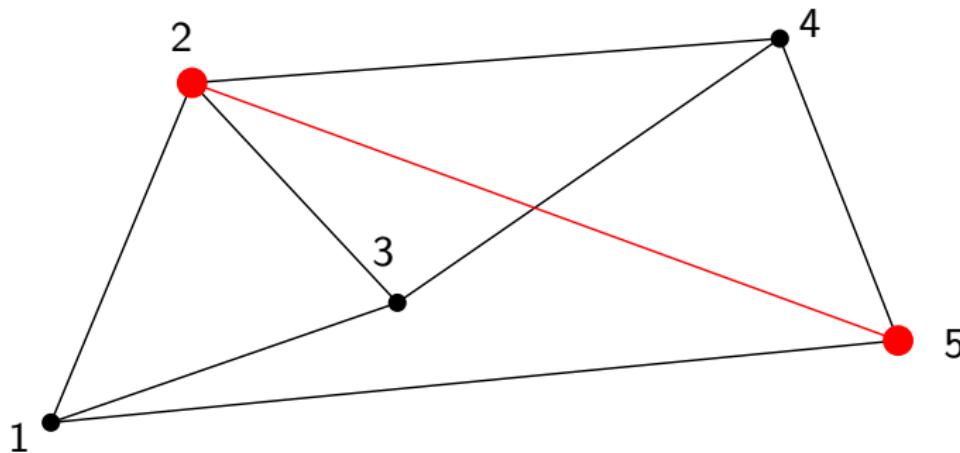
MIS-Vergrößerung



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MIS-Vergrößerung



V_0 : alle Knoten

$V_1 = \{1, 2, 3, 4, 5\}$ (MIS in V_0)

$V_2 = \{2, 5\}$ (MIS in V_1)