Selection of relevant nodes from component-trees in linear time

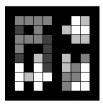
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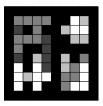
DGCI 2011 - Nancy

Definition (Component-trees)

Definition (Component-trees)



Definition (Component-trees)





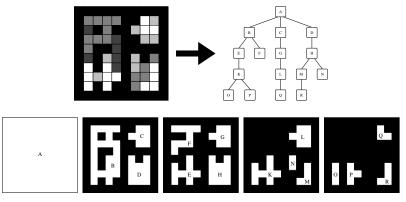








Definition (Component-trees)

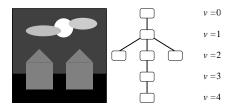


Definition (CT-based segmentation)

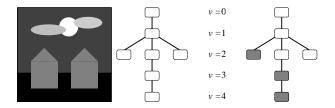
Definition (CT-based segmentation)



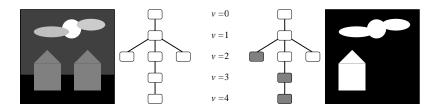
Definition (CT-based segmentation)



Definition (CT-based segmentation)



Definition (CT-based segmentation)



Contribution

Remark

Standard approach for CT-based segmentation: selection of the nodes based on attributes (= local information at each node).

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Alternative solution

Example-based approach: selection of the nodes which match at best a user-defined presegmentation.

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Alternative solution

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Contribution |

- Example-based CT segmentation strategy
- Proof of linear time complexity
- Software tool (cf. Demo session)



Thank you for your attention



See you at the Poster & Demo sessions...