Graphs' decompositions and resolutions of combinatorial problems

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25 october 2016

Table of contents

Tree decomposition

Definition (Graph decomposition)

A tree T is a decomposition of a graph G when its vertices are arranged satisfying the following properties :

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2. For every vertex v of G, the bags of T containing v form a connected subtree

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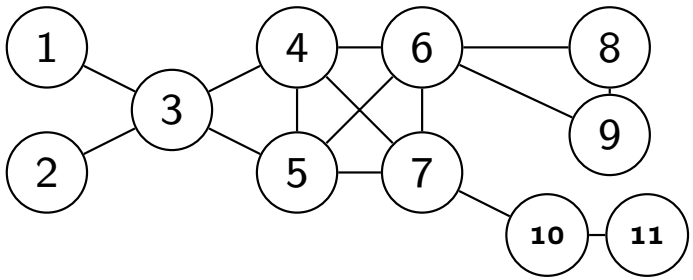

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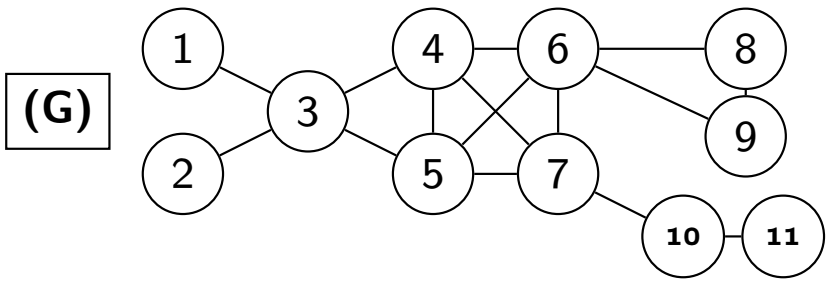

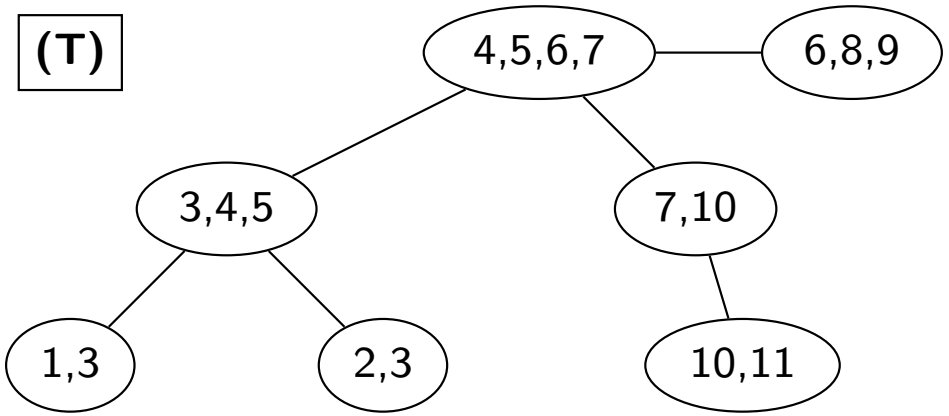

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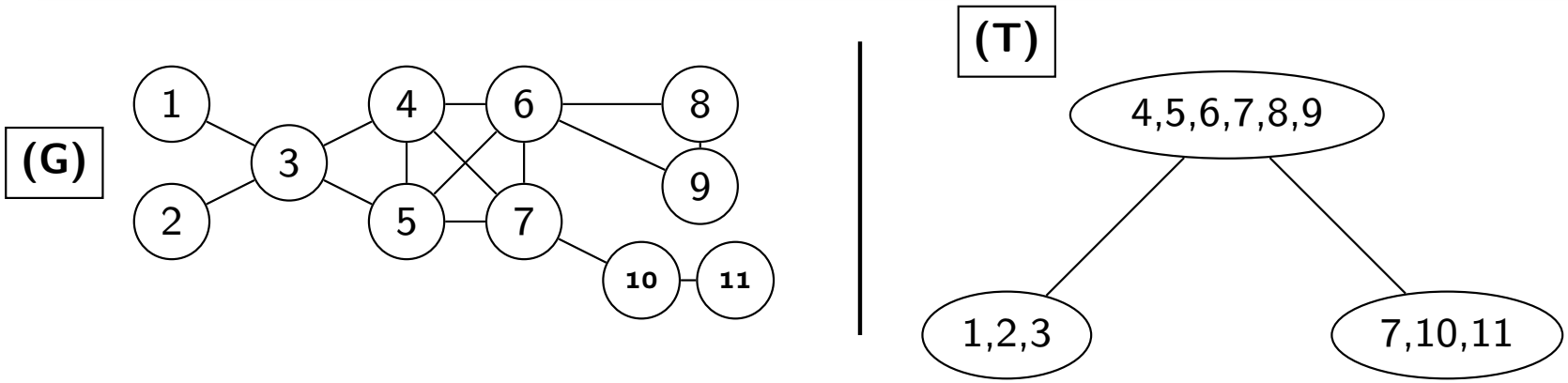

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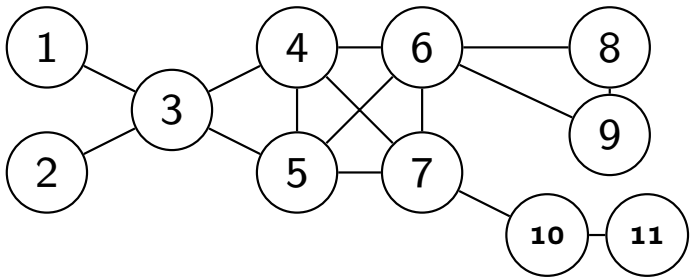

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