

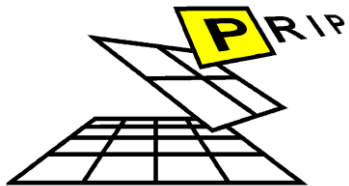
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Spatio-Temporal Extraction of Articulated Models in a Graph Pyramid

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Motivation

- model of target object is essential for tracking
- used to detect and associate instances of object over time

Concept

- input: trajectories of features (training video)
- cue: motion of features
- output: hierarchical, structural model



time

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Model?

- rigid parts
 - deduced from structure of object
 - e.g. body parts of a human
- points of articulation
 - connecting rigid parts

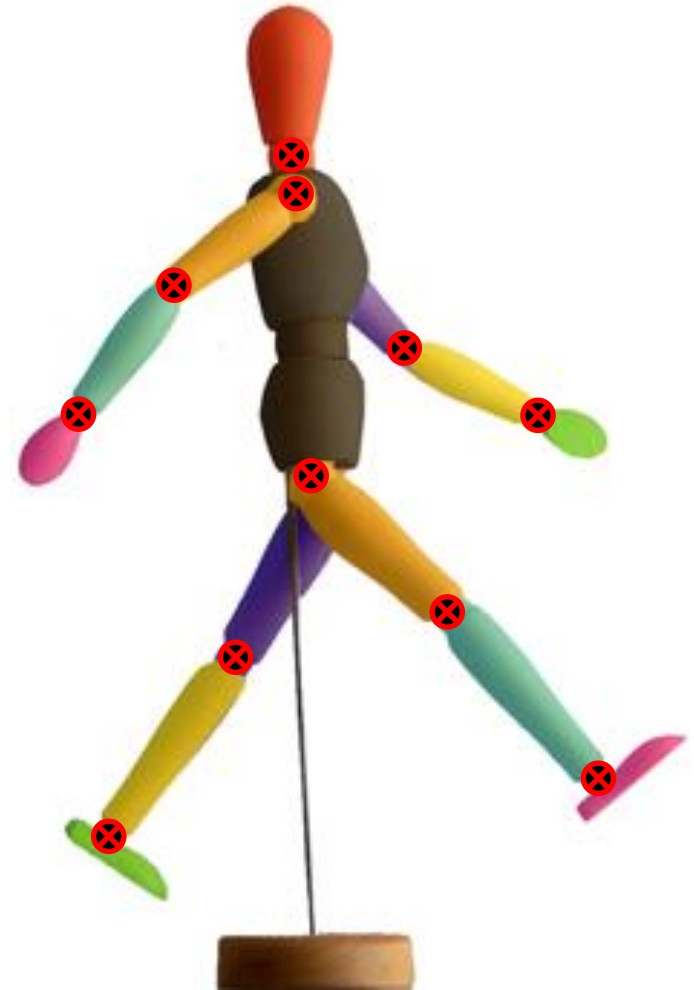


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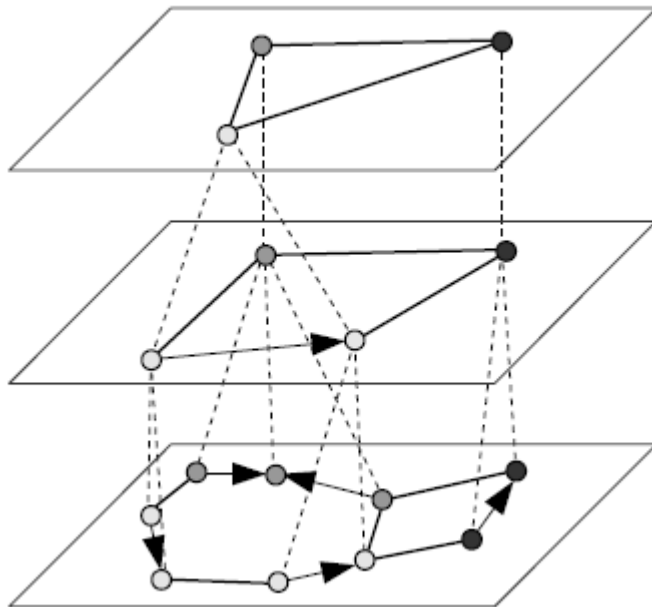
How?

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How?

Graph pyramid

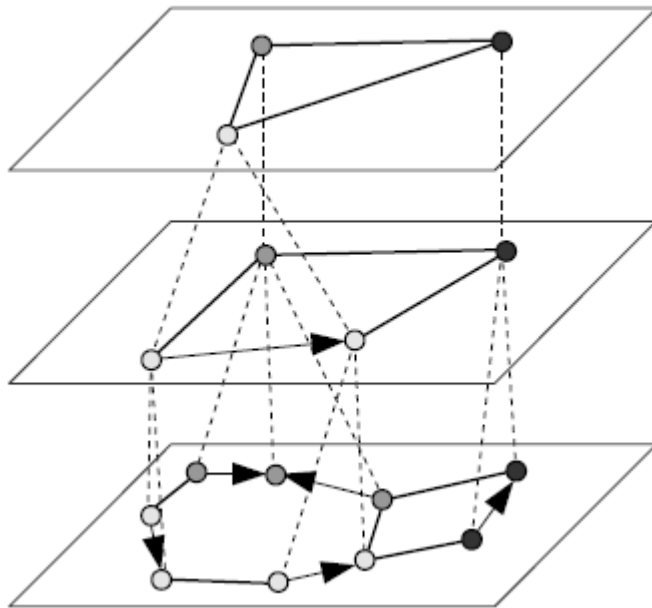


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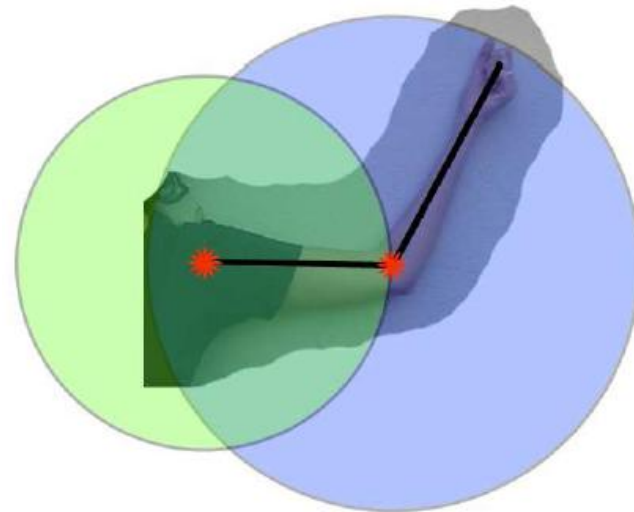
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How?

Graph pyramid



Structural constraints



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How?

Graph pyramid

structural constraints

