Instantaneous Action Primitives

Single actions, not sequences Eg. a hand wave vs meeting a friend

Temporally local/short-term image analysis: instantaneous

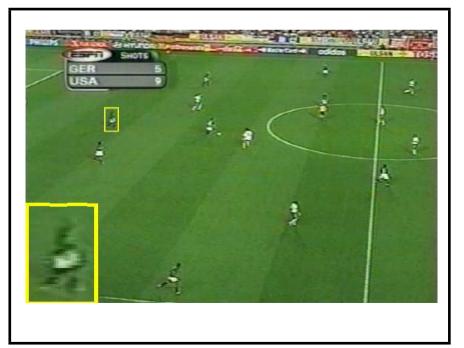
Appearance based/viewpoint specific

Efros, Berg, Mori & Malik

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Short Term Action Recognition

Slide 4/7



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Short Term Action Recognition

Robert B. Fisher School of Informatics University of Edinburgh

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Short Term Action Recognition

Slide 3/7

PROBLEM

Near field (bodies 300 pixels high) \rightarrow Use geometric model

Far field (bodies 3 pixels high) \rightarrow Can only use tracking

Here: medium field (bodies 30 pixels high)

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GOAL

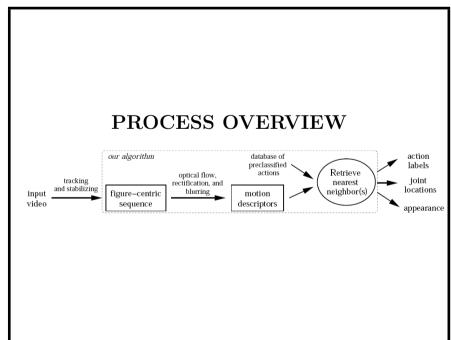
Select matching activities from database of video clips



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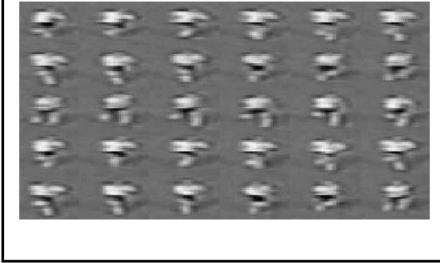
Short Term Action Recognition

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KEY CONCEPT

Match patterns of stabilized local movement



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