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Robust Visual Tracking via Convolutional Networks Without Training

ABSTRACT

- We present that, even without offline training with a large amount of auxiliary data, simple two-layer convolution networks can be powerful enough to learn robust representations for visual tracking.
- In the first frame, we extract a set of normalized patches from the target region as fixed filters, which integrate a series of adaptive contextual filters surrounding the target to define a set of feature maps in the subsequent frames.
- These maps measure similarities between each filter and useful local intensity patterns across the target, thereby encoding its local structural information.

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EXISTING SYSTEM

- In an ensemble of deep networks have been combined by online boosting method for visual tracking.
- Due to the lack of sufficient training data, both methods have not demonstrated competitive results compared to the state-of-the-art methods.
- Another line of research resorts to numerous auxiliary data for offline training the deep networks, and then transfer the pre-trained model to online visual tracking.
- It presents a human tracking algorithm that learns a specific feature extractor with CNNs from an offline training set.
- In Wang and Yeung develop a deep learning tracking method that uses stacked de-noising auto-encoder to learn the generic features from a large number of auxiliary images

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PROPOSED SYSTEM

- In propose a tracking method that represents a target object by the histograms of sparse coding of local patches.
- However, the local structural information of the target has not been fully exploited ,it present an alignment-pooling method to combine the histograms of sparse coding.
- The discriminative methods have been applied to visual tracking in which a binary classifier is learned online to separate a target object from the background.

HARDWARE REQUIRMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Sony.

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- Ram : 512 Mb.

SOFTWARE REQUIRMENTS

- Operating system : Windows XP.
- Coding Language : ASP. Net with C#
- Data Base : SQL Server 2005.

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