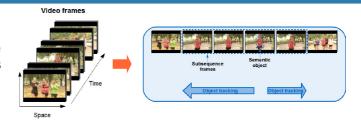
Xavier Giró-i-Nieto and Manuel Martos

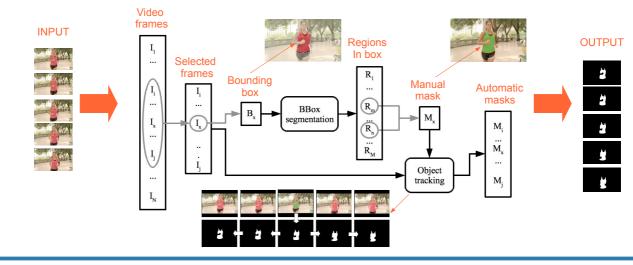
30a

This paper proposes a workflow for the **interactive segmentation** of video objects from a sequence of frames.



Two existing processing tools, an **still mage segmentation tool** and an **object tracker**, are combined in the designed graphical user interface.

Architecture

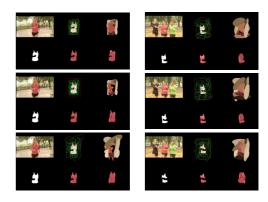


The **segmentation tool** [Garrido 2000] generates a Binary Partition Tree (BPT) of the selected bounding box, that allows different strategies for interactive object segmentation [Giró-i-Nieto 2010].

of the object "runner"

Binary Partition Tree (BPT)

The **object tracker** [Gallego 2011] models both foreground and background with a Spatial Colour Gaussian Mixture Model (SCGMM) that dynamically adapts to changes in the scene.



Application

Image processing

The presented architecture has been implemented in the **GAT Annotation Tool**.

- → Implemented in Java
- → MPEG-7/XML annotations
- Download and open source available at http://upseek.upc.edu

