Interactive Segmentation Tool

Overview
- Application that enables users to extract objects from images using a scribble based interaction paradigm
- Users mark foreground and background areas by drawing with the mouse. Each interaction updates the segmentation
- User can choose one of four built-in interactive segmentation algorithms; interaction paradigm and tools available remain the same
- Supported Platforms: Windows, Linux, Mac OSX

Visualize
- Combined view: displays the current markup and semi-transparently highlights the selected object.
- Foreground view: removes the background and markup only showing the selected object
- Outline view: shows the outline of the selected object overlaid on the image
- Mask view: shows the binary segmentation mask that has been generated

Algorithms
- Seeded region growing
- Interactive graph cuts
- Simple interactive object extraction
- Binary partition trees

Features
- Undo & redo support
- Brush size calibration
- Algorithm parameter tuning
- Zoom-in & Zoom out support

Experiment
- Built-in experiment mode for evaluation tasks and user experiments
- Task-driven timed experiments


Web Segmentation Platform

Overview
- Web-based variant of the K-Space video region segmentation tool (SAMT 2006: A Framework and User Interface for Automatic Region Based Segmentation Algorithms)
- Allows users to perform automatic region segmentation on images or video sequences using different segmentation algorithms
- New platform contains much of the same functionality as the original, with the added benefit of not requiring prior installation; the only software required is a web-browser.

Features
- Runs in a web-browser (GWT based)
- Supports multiple visualizations: region-averages, region-outlines, bounding boxes.
- Supports online algorithm parameter selection
- Includes batch processing mode to allow segmentation of groups of images of video sequences in a single step
- Segmentation algorithms: statistical region merging, and 2 variants of RSST

http://kspace.cdvp.dcu.ie/platform/platform.html