Σεμινάριο: «Επεξεργασία Εικόνας με το MATLAB»

Τρίτη, 16/2/2016, ώρες: 9:00 – 14:00

ΠΡΟΓΡΑΜΜΑ

- **Importing and Visualizing Images**

  Import image or video frames into MATLAB and visualize them. Convert images to a format that is useful for analysis.

- **Interactive Exploration of Images / Preprocessing Images**

  Explore object details such as shape, texture, and color and create a custom image exploration tool. Perform image preprocessing operations and apply custom functions to images.

- **Spatial Transformation and Image Registration**

  Align images to use the same scale and orientation. Compare aligned images. Create a panoramic scene by stitching images.

- **Edge and Line Detection**

  Segment edges of objects and extract boundary pixel locations. Detect lines and circles in an image.

- **Color and Texture Segmentation**

  Perform color segmentation to extract object of similar color. Use texture analysis to detect and extract patterns in an image and classify images based on their texture.

- **Feature Extraction**

  Segment objects using morphological operations and perform object shape measurements.