

Upcoming One Day Workshop

Matlab Essentials and Techniques in Image Processing

Date: Friday April 15, 2016

Time: 9:00PM - 4:00PM

Cost: No Charge

Location: MECE 3-3 University of Alberta

Instructors: Dr. Jon Johansson and Denise Thornton

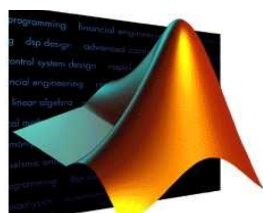
Description: This hands-on workshop presents the essential principles of Matlab usage followed by methods for working with images. We will start with an overview of Matlab, then we will discuss techniques used in Image Processing and Analysis

We will begin with a brief introduction to Matlab, including:

- ♦ Matlab interface components
- ♦ Variable types
- ♦ Create and run an m-file (script)
- ♦ Working with matrices and arrays
- ♦ Functions
- ♦ Convolutions
- ♦ Histograms
- ♦ Thresholding
- ♦ Binary and morphological operations
- ♦ Discussion of extending the analysis to 3D , as time permits.

Some programming experience is recommended for this course.

Who should attend? Graduate students with an interest in learning Matlab, and an interest in data and image analysis.



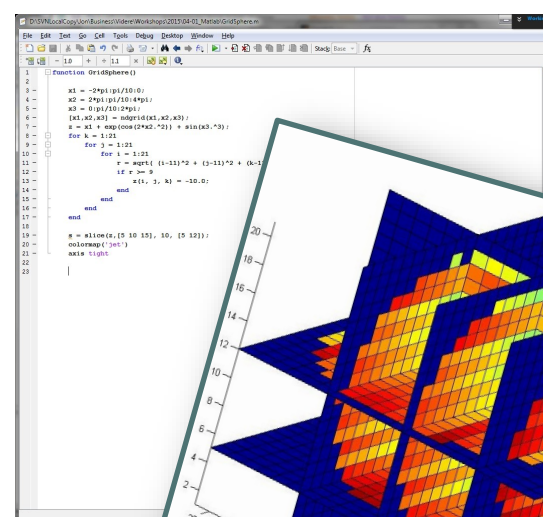
MATLAB
The Language of Technical Computing
The MATH WORKS

The venue is a computer lab and the machines are powerful enough to do the exercises. You are welcome to bring your own laptop and use it for the exercises. If you are bringing your own laptop you will need have to Matlab with the Image Processing toolbox. You will need to have a UofA CCID to access the lab machines and the campus network.

Workshop sponsored by the
**Mechanical Engineering Graduate Student's Association,
University of Alberta**

Registration:

videreanalytics.ca/events/megsa-matlab-apr-2016/



Visualization of Voxels

