Rlabz Edutech

Training | Workshops | Seminar | Consultancy

Presents
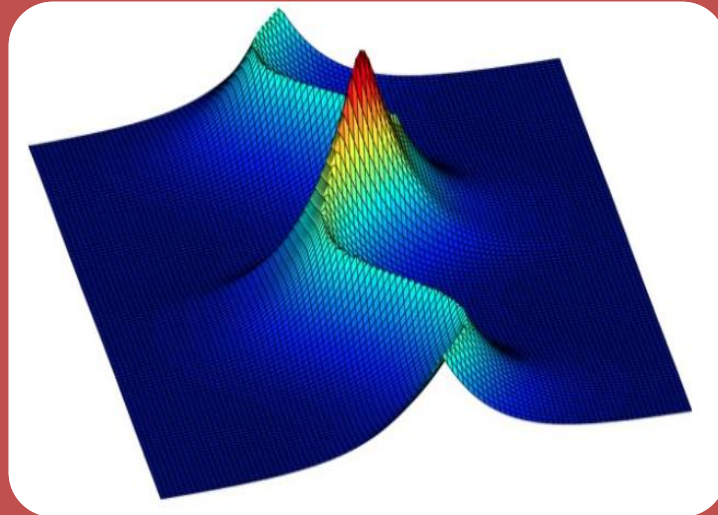
MATLAB

Interactive

Application Based

Useful

Fun

Low cost

User Friendly

Online support

Accelerate Learning

Itinerary of the workshop with details of the Topics to be covered

MATLAB (Matrix Laboratory)

DAY 1

Session 1

Introduction to MATLAB

- About MATLAB
- Installing on windows
- Development Environment
- MATLAB Desktop
- Matrices and arrays
- Expressions
- Controlling command window

Session 2

Graphics

- Basic plotting
- Editing plots
- Mesh and surface plots
- Handle graphics
- Script and functions

- Graphics user interfaces
- Symbolic math toolbox
- Calculus

Linear algebra

- Solving Equations
- PROJECTS
- Test Practices

DAY 2

Session 1

Images processing toolbox

Images in MATLAB

- Types of images
- Types of image compression and standard like JPEG, GIF
- Image arithmetic
- Coordinate systems
- Displaying images
- Basic image related functions

Session 2

Spatial Transformation

- Interpolation
- Resizing
- Rotation
- Cropping
- Image sequences
- Image arithmetic
- Reading and writing image data

Session 3

Linear Filtering

- Convolution
- Correlation
- Filter Design
- Use of IMFILTER function

DAY 3

Session 1

Analyzing and Enhancing Images

- Pixel values and statistics
- Image analysis
- Image enhancement

Region- Based Processing
- Filtering
- Filling

Color
- Conversion to different color spaces

Session 2

PROJECTS

- Image Acquisition
- Image conversion
- Image transformation
- Blurring
- Image matching
- Motion detection
- Edge Detection
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Sessions 3

- TESTING AND QUERIES
- COMPETITION
- CERTIFICATE DISTRIBUTION

Competition winner:
The winner of MATLAB competition will be awarded a cash prize worth Rs- 3000, a complete MATLAB Tool kit and a certificate of merit certified by Rlabz Edutech Pvt. Ltd.

Thank you

We ensure that you will find our initiative extremely beneficial for your students. If you have any queries kindly get back to us. We are looking forward to a quick and positive response from you and a long term association with your esteemed organization.

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