Institute of Molecular and Cell Biology
A*STAR

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Dr. Weimiao Yu:

Date: 20 November 2018, Tuesday
Time: 11:00AM – 12:30PM
Venue: Level 3, IMCB Seminar Room 3-46, Proteos, Biopolis

Speakers: Suharyono, Kevin Chng & Esther Wu, Techsource Systems
Title: Introduction to MATLAB and Simulink, Applying Multivariate Classification in the Life Sciences with Statistics Toolbox & Essential Tools for Machine Learning and Deep Learning

Introduction to MATLAB and Simulink - Suharyono

- Live Editor: Additional heading styles, internal hyperlinks, file merging, and interactive table filtering
- App Building: Scrollable containers, custom figure interactions, tooltips, grid layout manager, and local file upload in deployed web apps
- Web Apps: Share App Designer MATLAB programs as web apps using MATLAB Compiler
- GPU Coder

Applying Multivariate Classification in the Life Sciences with Statistics Toolbox - Kevin
Over recent releases, Statistics and Machine Learning Toolbox has included new functionality for :

- multivariate classification methods,
- cross-validation,
- feature selection,
- Naïve Bayes,
- bagged decision trees,
- ROC performance curves and integration with Parallel Computing Toolbox

Essential Tools for Machine Learning and Deep Learning - Esther
In this Topic, you will learn how machine learning tools in MATLAB address these challenges. We will demonstrate:

- Working with large out-of-memory data using the MATLAB “tall” framework
- Reducing dimensionality and identifying import features using advanced feature selection techniques
- Best practices for tuning hyperparameters to optimize the performance of your model
- How to deploy models for use in production IT systems or embedded devices
- Use Wavelet Toolbox with Signal Processing to extract features from time series data (Heart Beat, Sound and etc)
- How can we use deep learning for 1 Dimensional Data

ALL ARE WELCOME *(No registration required)*

We appreciate if you could disseminate this email to your staff.

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