Data Driven Learning

Of

Process Dynamics

Training Programme

by

Faculty of Engineering

Multimedia University

7 November 2020

Faculty of Engineering, Multimedia University

Overview

This course provides an overview of data-driven learning techniques aimed at identifying the dynamics of a process. The participants will be exposed to the best practices in terms of model and input excitation selection.

Objective

1. To introduce the basics of data-driven learning.

2. To introduce the best practices in terms of model and input excitation selection.

Target Audience

Academics and industrial practitioners in systems and control.

Prerequisite

Basic knowledge of system dynamics. Prior experience with MATLAB will be an added advantage but is not a prerequisite.

Training Methodology

Classroom and case studies.

Course Duration

1 day.

Content/Outline

Introduction to data-driven learning
Models of dynamics processes
Identifying system dynamics through data
Design of experiment through input excitation
Application example

Course Instructors

Dr. Tan Ai Hui

Dr. Tan Ai Hui obtained B.Eng. in Electronics and Ph.D. degrees from the University of Warwick, UK, in 1999 and 2002, respectively. She is currently an Associate Professor at the Faculty of Engineering, Multimedia University. She was a consultant to Agilent Technologies from 2012–2013. She is author of the book Industrial Process Identification: Perturbation Signal Design and Applications, published by Springer in 2019. She is a member of the International Federation of Automatic Control Technical Committee on Modelling, Identification and Signal Processing since December 2005. She was a recipient of IEE Institution Prize 1999. She is also a Chartered Engineer registered with the Engineering Council, UK and a Professional Engineer registered with the Board of Engineers Malaysia.

Administrative Details

Programme Logistics

Duration: 1 day
Date: 7 November 2020
Venue: Faculty of Engineering, Multimedia University
Registration Deadline: 24 October 2020

Your Investment

Condition		Price per Pax
Regular Fee (After 3 Oct 2020)	Students / MMU Alumni	RM350
	Public	RM600
	Public (Group >5 pax)	RM500
Early Bird Fee (Before 3 Oct 2020))	Students / MMU Alumni	RM250
	Public	RM500
	Public (Group >5 pax)	N/A

Method of Payment
Please make payment via bank transfer only. Account details is as below:

Account name: Unitele Multimedia Sdn Bhd
Account number: 86-0090180-2
Bank: CIMB Islamic Bank Berhad

Payment must be made by the registration deadline.

Refund and Cancellation
Any refunds will be processed in 60 days. Should there be any cancellation, it may be due to the organizer not getting the minimum participants or the participant failing to attend the workshop due to unavoidable reason.

Disclaimer
Faculty of Engineering, Multimedia University reserves the right to change the instructors, date and to vary/cancel the programme should unavoidable circumstances arise. All effort will be taken to inform participants of the changes. Upon submission of the registration form, you are deemed to have read and accepted the terms.

Enquiries
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Registration Form

To register, please visit this link: https://forms.gle/zfcWQzidKUToYgWT8