Teaching with MATLAB

by

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Abstract

One of the main goals of engineering and scientific education is to teach students how to deal with real-word problems. When developing their curricula, professors need to determine the right balancing between interesting and challenging topics so that students are encouraged to put into practice the theoretical concepts they have already learned.

The expectation from the industry is another key factor influencing the teaching. Nowadays, young scientists and engineers need to be ready and proficient to proactively contribute to the modelling, design, and implementation processes.

During this presentation, we will give a general overview of the main capabilities available in MATLAB to inspire critical thinking and innovation as well as to prepare students for prominent careers in industry, where the tools are the de facto standard for R&D. Through practical examples, we will also describe how top universities worldwide are successfully integrating MATLAB into their curricula to make teaching more engaging and trigger interdisciplinary learning.

About the presenter:

Stefano received a Master’s Degree in Electrical Engineering at University of Bologna, Italy, in July 1995, and got a Post Graduate Advanced Degree in Information Technology at CEFRIEL, Polytechnic of Milan the same year.

He’s been with MathWorks since 2005. After spending eight years as a Senior Application Engineer in the field of Signal Processing and Communication Systems, supporting companies in the Communications, Electronics, Semiconductors and Aerospace and Defense industry segments, Stefano is currently working as a Customer Success Engineer to help the top universities with the adoption of MathWorks tools for effective teaching and research.

Before that, he worked with R&D labs in STMicroelectronics and Philips Research, were he dealt with the design and development of wireless communication and video processing systems.

Stefano has also been Contract Professor with the University of Milano for three years, where he was teaching Transmission Theory for the Telecommunication Software Engineering Bachelor Degree.

Date : 11 May 2018 (Friday)

Time : 10:00

Venue : Chen Kuan Cheng Forum (LTH, Lifts 27-28)