Humilitas VICTRIX INVICTA

ALMO COLLEGIO
BORROMEO
1561 PAVIA

UNIVERSITÀ DI PAVIA
Facoltà di Ingegneria
Università degli Studi di Pavia

CENTRALIZED DISTRIBUTED AND COALITIONAL MODEL PREDICTIVE CONTROL

José M. Maestre Torreblanca

Systems and Automation Department
Higher Technical School of Engineering - University of Seville

presented by

Lalo Magni

Dean of the Faculty of Engineering
University of Pavia

Davide Raimondo

Associate Professor
ICDS Lab - Faculty of Engineering
University of Pavia

the lecture will be held in english

Model predictive control (MPC) has become of the most popular control techniques due its flexibility. Issues such as constraints on the control problem variables, delays in the system dynamics, and multiple objectives can be handled explicitly in the MPC framework. The evolution of computer, information and communication technologies has motivated the application of MPC to problems beyond its scope years ago and the development multiple noncentralized MPC approaches. The goal of this talk is to present a coherent and easily accessible overview regarding model predictive control and some of the latest developments regarding its application to systems of systems, including topics such as coalitional control and cybersecurity.

Wednesday 6 June 2018, h. 18

Almo Collegio Borromeo