**Systems & Control Seminar**

**28th January Wednesday: 13.00-14.00, Room: C164**

**Title: “***Economic Model Predictive Control: an Introduction”*

**Speaker: Dr David Angeli**

Electrical Engineering Department, Imperial College

**Abstract**

Economic model predictive control has recently emerged as a variant of standard Model Predictive Control where the control goal is shifted from tracking of pre-assigned set-points to optimization of a performance criterion. In mathematical terms this amounts to cost functionals that are not necessarily minimal at some equilibrium of interest but who can take arbitrary shapes. Performance and Stability analysis of receding horizon control schemes will be discussed as well as illustrative examples to highlight the merits and differences of the proposed approach with respect to classical Model Predictive Control.