

MMEC SEMINAR SERIES

MECHANICS: MODELLING, EXPERIMENTATION, COMPUTATION

Tuesdays @ 4:00pm – Room 3-370

November 18, 2014

Controlling Complex Network Dynamics

Adilson E Motter, *Northwestern University*

Numerous systems are now modeled as complex networks of coupled dynamical units. Nonlinearity and high-dimensionality are hallmarks of the dynamics of complex networks but have generally been regarded as obstacles to control.

In this talk, I will discuss recent approaches to control nonlinear network dynamics that are effective in large networks and even in the presence of constraints, noise, and uncertainty. I will also discuss applications to engineering, biomedical, and ecological problems.

Seminar Host: Themis Sapsis (sapsis@mit.edu)

Please join us for refreshments beforehand, outside Room 3-370

For more information, visit our website at <http://web.mit.edu/mmec/>

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