MATHEMATICAL PERSPECTIVE OF CONTROL THEORY- A GLIMPSE

Renu Chaudhary Post Doctoral Fellow Department of Mathematics The Technion – Israel Institute of Technology, Haifa

Abstract

In this talk, we will discuss functional analytic linkage between controllability aspects of a dynamical system and solvability analysis of a related operator equation. We will consider both linear as well as nonlinear systems. The problems pertaining to trajectory control of orbiting satellite and heat control in a chamber will form our motivating examples.