Bounded backstepping control and robustness analysis for time-varying systems under converging-input-converging-state conditions

Abstract: Backstepping is an important technique used to design stabilizing controls for a special class of nonlinear control systems. This talk will focus backstepping results for partially linear systems where a converging-input-converging-state condition is utilized. Input-to-state stability with respect to a large class of model uncertainties and robustness to delays in the measurements of the state will also be discussed.