



CSC Seminar

SPEAKER

Iryna Vasylieva

Alpen-Adria-Universität Klagenfurt

TITLE

Partial Stabilization of Nonlinear Stochastic Systems

ABSTRACT

The talk is devoted to the problem of partial stabilization of nonlinear systems described by Ito stochastic differential equations. The considered problem is related to the asymptotic stability property of invariant sets and has important applications in mechanics and engineering. Sufficient conditions for the asymptotic stability of an invariant set are proposed by using a stochastic version of LaSalle's invariance principle. Mechanical examples are presented to illustrate the efficiency of the obtained controllers.

Wednesday, September 9, 2020 at 11 am
Seminar room Prigogine V0.05-2+3 and BBB