UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Invariance entropy

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Resumo. In this talk, the notion of invariance entropy for continuous-time control systems is explained. This quantity measures the minimal data rate necessary to render a compact subset of the state space invariant by a digital coding and control law. However, invariance entropy is an intrinsic quantity of the open-loop system and shares several properties with the classical entropy concepts in the field of dynamical systems. Some of these properties, in particular relations to Lyapunov exponents, are pointed out.

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