

On the rate of convergence for first-order singular perturbation problems

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In this talk we will present some recent results obtained in collaboration with P. Cannarsa on the rate of convergence for first-order singular perturbation problems. Such a problem concerns the analysis of systems where some state variables evolve at a much faster time scale and the limit leads to the elimination of such fast variables. We will, in particular, focus the attention to the application to differential games and mean field games.

Work in memory of Maurizio Falcone.

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