

Adaptive Optimal Control in Cooperative and Decentralized Systems

Ivana Palunko

Department of Electrical and Computer Engineering
University of Dubrovnik, Croatia

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Abstract

Heterogeneous robot cooperation, robot manipulation of various objects, networked control systems in smart cities, path planning for heterogeneous robots in dynamic environments are examples of systems where adaptive optimal control can be successfully employed. In this talk, problems and results of these algorithms will be presented which enabled these systems to adapt to changing environments while maintaining the sub-optimal performance. Current research activities related to these topics will be presented.