

Model Predictive Control Classical Robust And Stochastic Advanced Textbooks In Control And Signal Processing

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Toolbox Francesco Borrelli: "Sample-Based Learning Model Predictive Control"

Model Predictive Control (MPC)

Robust Sampling Based Model Predictive Control with Sparse Objective Information

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Whereas several RMPC methods have been developed for electrical or thermal microgrids, little or no attention has been devoted to robust control of multi-carrier microgrids. Therefore, we consider a novel RMPC algorithm that can improve the performance with respect to deterministic Model Predictive Control (Det-MPC) controllers in the context of multi-carrier microgrids.

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In robust model predictive control it is assumed that the disturbance w takes values in the compact set W that contains the origin in its interior. In stochastic model predictive control $\{w(t)\}$ is a random process, a sequence of independent, identically distributed random variables taking values in a set W that is not necessarily compact.

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