

# How to Control Operators with Local and Nonlocal Behavior

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**Abstract:** In this talk we consider optimization aspects of systems in which the operators describing the system do not only exhibit local but also nonlocal behavior. First, we present several examples and instances where such systems occur and how the operators look like.

We review several approaches in the literature and give insight into the numerical solution of equations with nonlocal operators. Aspects of optimization conclude this talk.

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