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The text is divided into five parts featuring: - a literature survey of paradigms and control design methods for PDE systems - the first principle mathematical modeling of applications arising in heat and mass transfer, interconnected multi-agent systems, and piezo-actuated smart elastic structures - the generalization of flatness-based trajectory planning and feedforward control to parabolic and biharmonic PDE systems defined on general higher-dimensional domains - an extension of the ...

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In a recent work of our group, we considered a class of nonlinear PDEs with variable coefficients and boundary and in-domain disturbances over higher dimensional domains and established ISS ...

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dimension higher than 5. This is particularly challenging in the context of nonlinear optimal control, as the dimension of the associated HJ PDE is determined by the dimension of the state space of the control problem. A partial remedy to this problem is the coupling of model reduction techniques for the dynamics with a grid-based

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[4] T. Meurer (2013) Control of Higher-Dimensional PDEs: Flatness and Backstepping Designs, Springer-Verlag, Berlin, Heidelberg [5] M. Tucsnak, G. Weiss (2009) Observation and Control for Operator Semigroups, Birkhäuser, Basel

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The physics of a control problem and correponding network architectures are encapsulated in the class PDE in control.pde.pde_base. For reference, have a look at the implementation of IncrementPDE, BurgersPDE, and IncompressibleFluidPDE. To implement your own physics or networks, subtype the PDE class and pass it to the ControlTraining constructor.

Learning to Control PDEs with Differentiable Physics - GitHub
Approximation of high-dimensional parametric PDEs. Parametrized families of PDEs arise in various contexts such as inverse problems, control and optimization, risk assessment, and uncertainty quantification. In most of these applications, the number of parameters is large or perhaps even infinite.

[1502.06797] Approximation of high-dimensional parametric PDEs
Numerical Methods for PDEs Integral Equation Methods, Lecture 1 Discretization of Boundary Integral Equations Notes by Suvranu De and J. White April 23, 2003. 1 Outline for this Module Slide 1 ... In this slide above, we consider a two dimensional exterior heat conduction

Numerical Methods for PDEs - MIT OpenCourseWare
We present a new framework for optimal and feedback control of PDEs using Koopman operator-based reduced order models (K-ROMs). The Koopman operator is a linear but infinite-dimensional operator which describes the dynamics of observables.

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Linear PDEs can be reduced to systems of ordinary differential equations by the important technique of separation of variables. This technique rests on a characteristic of solutions to differential equations: if one can find any solution that solves the equation and satisfies the boundary conditions, then it is the solution (this also applies to ODEs).