

Differential Games Theory And Methods For Solving Game Problems With Singular Surfaces

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Differential Games Theory And Methods

In game theory, differential games are a group of problems related to the modeling and analysis of conflict in the context of a dynamical system. More specifically, a state variable or variables evolve over time according to a differential equation. Early analyses reflected military interests, considering two actors—the pursuer and the evader—with diametrically opposed goals. More recent analyses have reflected engineering or economic considerations.

Differential game - Wikipedia

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Differential Games | SpringerLink

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One of the definitive works in game theory, this fascinating volume offers an original look at methods of obtaining solutions for conflict situations. Combining the principles of game theory, the calculus of variations, and control theory, the author considers and solves an amazing array of problems: military, pursuit and evasion, games of ...

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Three Important Applications of Mathematics in Financial ...

Book: R. Isaacs, Differential Games: A mathematical theory with applications to warfare and pursuit, control and optimization, 1965. Later the theory was developed by many contributors including A. Merz and J. Breakwell. More recent contributions by T. Basar and coworkers. Book: Basar and Olsder, Dynamic Noncooperative Game Theory, 1982.

16.410/413 Principles of Autonomy and Decision Making

Rubel O, Zaccour G (2006) A differential game of a dual distribution channel. In: Jørgensen S, Quincampoix M, Vincent TL (eds) Advances in dynamic games: Theory, numerical methods and applications to ecology and economics. Annals of the international society of dynamic games, vol 9. Birkhauser, Boston. Google Scholar

Developments in differential game theory and numerical ...

Table of Contents I. Zero-Sum Differential Games and Numerical Methods.- 1 Constructive Theory of Positional Differential Games and Generalized Solutions to Hamilton—Jacobi Equations.- 2 Two-Player, Zero-Sum Differential Games and Viscosity Solutions.- 3 Numerical Methods for Pursuit-Evasion Games via Viscosity Solutions.- 4 Set-Valued Numerical Analysis for Optimal Control and Differential ...

Stochastic and Differential Games: Theory and Numerical ...

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Stochastic and differential games : theory and numerical ...

Game theory methods have been instrumental in the advancement of various disciplines such as social science, economics, biology, and engineering. The focus of this dissertation is to develop techniques for approximating solutions to zero-sum and nonzero-sum noncooperative differential games and using these solutions to stabilize some classes

DIFFERENTIAL GAME-BASED CONTROL METHODS FOR UNCERTAIN ...

Differential games such as the continuous pursuit and evasion game are continuous games where the evolution of the players' state variables is governed by differential equations. The problem of finding an optimal strategy in a differential game is closely related to the optimal control theory.

Game theory - Wikipedia

Advances in Dynamic Games covers a variety of topics, ranging from evolutionary games, theoretical developments in game theory and algorithmic methods to applications, examples, and analysis in fields as varied as mathematical biology, environmental management, finance and economics, engineering, guidance and control, and social interaction ...

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A. System Dynamics We formulate the pursuit-evasion-defense problem as a differential reach-avoid game, where one of the players is attempting to drive the system into some target set without leaving a constraint set, while the other player attempts to hinder it: in this setting, the first player is the pursuer, and the second is comprised by the evader-defender team.

The Pursuit-Evasion-Defense Differential Game in Dynamic ...

Geared toward graduate students, Differential Games will be of particular interest to professionals in the fields of electrical engineering, industrial engineering, economics, and mathematics. Although intended primarily for self-study, it can be used as a core or ancillary text in courses in differential games, game theory, and control theory.

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