

Minimax Methods In Critical Point Theory With Applications To Differential Equations Cbms Regional Conference Series In Mathematics

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MINIMAX METHODS TO DIFFERENTIAL EQUATIONS

First we will examine contributions to the minimax approach to critical point theory. In particular the Mountain Pass Theorem, the Saddle Point Theorem, and variants thereupon will be discussed in Part 1.

Minimax Methods in Critical Point Theory with Applications ...

The book provides an introduction to minimax methods in critical point theory and shows their use in existence questions for nonlinear differential equations. An expanded version of the author's 1984 CBMS lectures, this volume is the first monograph devoted solely to these topics.

Minimax Methods In Critical Point

Minimax Methods in Critical Point Theory with Applications to Differential Equations About this Title Paul H. Rabinowitz , University of Wisconsin, Madison, Madison, WI

Convergence Results of a Local Minimax Method for Finding ...

A minimax method for finding multiple critical points in Banach spaces is successfully developed in by using a projected pseudo-gradient as a search direction. Since several different techniques can be used to compute a projected pseudo-gradient, the uniform stepsize and the continuity of a search direction, two key properties for

Minimax Methods in Critical Point Theory with Applications ...

introduction to minimax methods in critical point theory and their application to problems in differential equations. The presentation of the abstract minimax theory is essentially self-contained. Most of the applications are to semilinear elliptic partial differential equations and a basic knowledge of linear elliptic the-

Convergence Results of A Local Minimax Method for Finding ...

a| Minimax methods in critical point theory with applications to differential equations / c| Paul H. Rabinowitz. 260 a| Providence, R.I. : b| Published for the Conference Board of the Mathematical Sciences by the American Mathematical Society, c| c1986.

Unified Convergence Results on a Minimax Algorithm for ...

A Minimax Method for Finding Multiple Critical Points and Its Applications to Semilinear PDE by Yongxin Li, Jianxin Zhou - SIAM J. Sci. Comp Most minimax theorems in critical point theory require one to solve a two-level global optimization problem and therefore are not for algorithm implementation.

Critical Point Theory on Partially Ordered Hilbert Spaces ...

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Minimax Methods in Critical Point Theory with Applications ...

Minimax Systems and Critical Point Theory is accessible to graduate students with some background in functional analysis, and the new material makes this book a useful reference for researchers and mathematicians. Review of the author's previous Birkhäuser work, Linking Methods in Critical Point Theory:

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minimax method are established for isolated and non-isolated critical points. The convergence results show that the algorithm indeed exceeds the scope of a minimax

MINIMAX METHODS IN CRITICAL POINT THEORY WITH APPLICATIONS ...

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Minimax Methods in Critical Point Theory with Applications ...

Most minimax theorems in critical point theory require one to solve a two-level global optimization problem and therefore are not for algorithm implementation. The objective of this research is to develop numerical algorithms and corresponding mathematical theory for finding multiple saddle points in a stable way.

A Minimax Method for Finding Multiple Critical Points and ...

Minimax methods in critical point theory with applications to differential equations @inproceedings{Rabinowitz1986MinimaxMI, title={Minimax methods in critical point theory with applications to differential equations}, author={Paul H. Rabinowitz}, year={1986} }

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MINIMAX METHODS IN CRITICAL POINT THEORY WITH APPLICATIONS TO DIFFERENTIAL EQUATIONS (CBMS Regional Conference Series in Mathematics 65)

The Minimax Approach to the Critical Point Theory ...

Critical Point Theory on Partially Ordered Hilbert Spaces ... A. Ambrosetti, P. RabinowitzDual variational methods in critical point theory and applications. J. Funct. Anal., 14 (1973), pp. 349-381. Google Scholar. 4. A. Bahri, H. BerestyckiA perturbation method in critical point theory and applications.

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In this paper, first Step 5 in the algorithm is modified with the design of a new stepsize rule that is easier to implement practically and with which convergence results of the numerical minimax method are established for isolated and nonisolated critical points.

Minimax Systems and Critical Point Theory: Martin ...

Banach Space Critical Point Theory Mountain Pass Theorem Minimax Approach Ekeland Variational Principle These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

Critical Point Theory and Applications to Differential ...

Summary: Gives an introduction to minimax methods in critical point theory and shows their use in existence questions for nonlinear differential equations. This title is addressed to mathematicians interested in differential equations and/or nonlinear functional analysis, particularly critical point theory.

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