

Computational Combinatorial Optimization Optimal Or Provably Near Optimal Solutions Lecture Notes In Computer Science

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Computational Combinatorial Optimization Optimal Or

Here, we show that a massively parallel computational model of the ... statistical physics 45 and is used for a range of combinatorial optimization problems in which the goal is to identify ...

Computational modelling of perivascular-niche dynamics for the optimization of treatment schedules for glioblastoma

The interplay between optimization and machine learning is one of the most important developments in modern computational science. Optimization formulations ...

Optimization for Machine Learning

In the field of combinatorial optimization problems, the Vehicle Routing Problem (VRP) is one of the most challenging. Defined more than 40 years ago, the problem involves designing the optimal set of ...

The Vehicle Routing Problem

The past couple of years have seen an unprecedented number of failures of clinical trials investigating combinatorial ... building computational models able to simulate and predict the toxicity and ...

Mechanistic Learning for Combinatorial Strategies With Immuno-oncology Drugs: Can Model-Informed Designs Help Investigators?

The nation's power grid remains vulnerable to disruption from extreme events including wildfires, severe storms, and cyberattacks. Variable generation resources and load volatility also present ...

Improving grid reliability in the face of extreme events

Achieve a substantial computational ... A culture of optimal, data-driven decision-making across your organization. This ability to leverage optimization software will benefit your business ...

How Optimization Can Help Your Business Prepare For A Possible Quantum Computing Future

and software can be used to efficiently solve problems in computational finance. It discusses some classical mean-variance portfolio optimization models as well as more modern developments such as ...

Optimization Methods in Finance

In this paper, a Computational ... technique for solving optimization problems. It is a procedure for finding good quality solutions to a large diversity of combinatorial optimization problems.

Computational Intelligence Based Simulated Annealing Guided Key Generation in Wireless Communication (CISAKG)

See allHide authors and affiliations Physical annealing systems provide heuristic approaches to solving combinatorial optimization problems ... difference for instances with over 50 vertices. An ...

Experimental investigation of performance differences between coherent Ising machines and a quantum annealer

Deep learning has put forward the power of training large differentiable models (neural networks) with gradient-based optimization. Can we quantify the power of such a general differentiable learning ...

Topic 1: Information-Theoretic Foundations of Learning Algorithms

With the explosive emergence of computation-intensive and latency-sensitive applications, data processing could be envisioned to perform closer to the data source. Similar to edge and fog computing, ...

Resolving Multi-task Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game

The optimization of therapeutic antibodies is ... We then used the trained neural networks to screen a computational library of approximately 1×10^8 trastuzumab variants and predict the ...

Optimization of therapeutic antibodies by predicting antigen specificity from antibody sequence via deep learning

This paper presents an efficient reconfigurable access scheme for massive machine-type communication networks, where to provide massive connectivity, the base station is equipped with a large-scale ...

A Reconfigurable Access Scheme for Massive-MIMO MTC Networks

This article proposes a framework for a methodology that combines multiple computational models, stakeholder interviews, and optimization to find an optimal protective strategy over time for critical ...

A methodological framework for determining an optimal coastal protection strategy against storm surges and sea level rise

Director, Center for Mathematics and Artificial Intelligence (CMAI), and Associate Professor, Mathematical Sciences, Rainald Löhner (co-PI), Director, Computational Fluid Dynamics (CFD) Center and ...

Mason researchers to receive funding for GPU-based computing cluster

François Meyer and his group work on the development of mathematical algorithms and computational methods ... as well as the development of optimal and near-optimal methods are of interest as is the ...

Communication, Data, Information & Network Sciences Research Area

Researchers are still trying to build the optimal battery for electric vehicles (EVs ... similar to an MRI—and computational modeling to discover that adding small amounts of potassium salt to a ...

New Solution to Prevent Dendrites for Safer EV Batteries

Using this generalized view, a link between the combinatorial ... LaTeX, Github and More Computational science is now dependent on a shared software infrastructure which enables the use of cutting ...

CDSE Days 2019 Agenda

a Canada Research Chair in Computational Modeling and Design Optimization Under Uncertainty. *Our particular focus is on high-dimensional problems that are common in the aerospace industry; however, ...

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