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LINC 15610

Evolutionary Computation in Combinatorial Optimization

25th European Conference, EvoCOP 2025
Held as Part of EvoStar 2025, Trieste, Italy, April 23–25, 2025
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Evolutionary Computation In Combinatorial Optimization

Martin Middendorf, Christian Blum



Evolutionary Computation In Combinatorial Optimization:

Recent Advances in Evolutionary Computation for Combinatorial Optimization Carlos Cotta, Jano van Hemert, 2008-09-08 Combinatorial optimisation is a ubiquitous discipline whose usefulness spans vast applications domains. The intrinsic complexity of most combinatorial optimisation problems makes classical methods unaffordable in many cases. To acquire practical solutions to these problems requires the use of metaheuristic approaches that trade completeness for pragmatic effectiveness. Such approaches are able to provide optimal or quasi optimal solutions to a plethora of difficult combinatorial optimisation problems. The application of metaheuristics to combinatorial optimisation is an active field in which new theoretical developments, new algorithmic models and new application areas are continuously emerging. This volume presents recent advances in the area of metaheuristic combinatorial optimisation with a special focus on evolutionary computation methods. Moreover, it addresses local search methods and hybrid approaches. In this sense, the book includes cutting edge theoretical, methodological, algorithmic and applied developments in the field from respected experts and with a sound perspective. [Evolutionary Computation in Combinatorial Optimization](#) Arnaud Liefooghe, Manuel López-Ibáñez, 2018-03-23 This book constitutes the refereed proceedings of the 18th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2018 held in Parma, Italy, in April 2018, co-located with the Evo 2018 events EuroGP, EvoMUSART and EvoApplications. The 12 revised full papers presented were carefully reviewed and selected from 37 submissions. The papers cover a wide spectrum of topics ranging from the foundations of evolutionary computation algorithms and other search heuristics to their accurate design and application to both single and multi objective combinatorial optimization problems. Fundamental and methodological aspects deal with runtime analysis, the structural properties of fitness landscapes, the study of metaheuristics core components, the clever design of their search principles and their careful selection and configuration by means of automatic algorithm configuration and hyper heuristics. Applications cover conventional academic domains such as NK landscapes, binary quadratic programming, traveling salesman, vehicle routing or scheduling problems and also include real world domains in clustering, commercial districting and winner determination. **Evolutionary Computation in Combinatorial Optimization** Luís Paquete, Christine Zarges, 2020-04-09 This book constitutes the refereed proceedings of the 20th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2020 held as part of Evo 2020 in Seville, Spain, in April 2020, co-located with the Evo 2020 events EuroGP, EvoMUSART and EvoApplications. The 14 full papers presented in this book were carefully reviewed and selected from 37 submissions. The papers cover a wide spectrum of topics ranging from the foundations of evolutionary computation algorithms and other search heuristics to their accurate design and application to combinatorial optimization problems. **Evolutionary Computation in Combinatorial Optimization** Jano van Hemert, 2008-03-14 This book constitutes the refereed proceedings of the 8th European Conference on Evolutionary Computation in Combinatorial

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Evolutionary Computation in Combinatorial Optimization Carlos Cotta, Peter I. Cowling, 2009-04-10 This book constitutes the refereed proceedings of the 9th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2009 held in Tübingen Germany in April 2009 The 21 revised full papers presented were carefully reviewed and selected from 53 submissions The papers present the latest research and discuss current developments and applications in metaheuristics a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial economical and scientific domains Prominent examples of metaheuristics are evolutionary algorithms simulated annealing tabu search scatter search memetic algorithms variable neighborhood search iterated local search greedy randomized adaptive search procedures estimation of distribution algorithms and ant colony optimization

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Evolutionary Computation in Combinatorial Optimization Christine Zarges, Sébastien Verel, 2021-03-26 This book constitutes the refereed proceedings of the 21st European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2021 held as part of Evo 2021 as Virtual Event in April 2021 co located with the Evo 2021 events EvoMUSART EvoApplications and EuroGP The 14 revised full papers presented in this book were carefully reviewed and selected from 42 submissions They cover a wide spectrum of topics ranging from the foundations of evolutionary algorithms and other search heuristics to their accurate design and application to combinatorial optimization problems Fundamental and methodological aspects deal with runtime analysis the structural properties of fitness landscapes the study of core components of metaheuristics the clever design of

their search principles and their careful selection and configuration Applications cover problem domains such as scheduling routing search based software engineering and general graph problems The range of topics covered in this volume reflects the current state of research in the fields of evolutionary computation and combinatorial optimization

Evolutionary Computation in Combinatorial Optimization Peter Merz, Jin-Kao Hao, 2011-04-19 This book constitutes the refereed proceedings of the 11th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2011 held in Torino Italy in April 2011 The 22 revised full papers presented were carefully reviewed and selected from 42 submissions The papers present the latest research and discuss current developments and applications in metaheuristics a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial economical and scientific domains Prominent examples of metaheuristics are evolutionary algorithms simulated annealing tabu search scatter search memetic algorithms variable neighborhood search iterated local search greedy randomized adaptive search procedures estimation of distribution algorithms and ant colony optimization

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7th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2007 held in Valencia Spain in April 2007 The 21 revised full papers cover evolutionary algorithms as well as various other metaheuristics like scatter search tabu search memetic algorithms variable neighborhood search ant colony optimization and particle swarm optimization algorithms

Evolutionary Computation in Combinatorial Optimization Thomas Stützle, Markus Wagner, 2024-04-18 This book constitutes the referred proceedings of the 24th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2024 held as part of EvoStar 2024 in Aberystwyth UK during April 3 5 2024 The 12 full papers presented in this book were carefully reviewed and selected from 28 submissions They cover a variety of topics ranging from constructive algorithms machine learning techniques ranging from neural network based guidance to sparse surrogate models for optimization problems the foundation of evolutionary computation algorithms and other search heuristics to multi objective optimization problems

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Evolutionary Computation in Combinatorial Optimization Francisco Chicano, Bin Hu, Pablo García-Sánchez, 2016-03-15 This book constitutes the refereed proceedings of the 16th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2016 held in Porto Portugal in March April 2016 co located with the Evo 2015 events EuroGP EvoMUSART and EvoApplications The 17 revised full papers presented were carefully reviewed and selected from 44 submissions The papers cover methodology applications and theoretical studies The methods included evolutionary and memetic algorithms variable neighborhood search particle swarm optimization hyperheuristics mat heuristic and other adaptive approaches Applications included both traditional domains such as graph coloring vehicle routing the longest common subsequence problem the quadratic assignment problem and new er domains such as the traveling thief problem web service location and finding short addition chains The theoretical studies involved fitness landscape analysis local search and recombination operator analysis and the big valley search space hypothesis The consideration of multiple objectives dynamic and noisy environments was also present in a number of articles

Evolutionary Computation in Combinatorial Optimization Peter I. Cowling, Peter Merz, 2010-04-03 This book constitutes the refereed proceedings of the 10th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2010 held in Istanbul Turkey in April 2010 The 24 revised full papers presented were carefully reviewed an selected from 69 submissions The papers present the latest research and discuss current developments and applications in metaheuristics a paradigm to

effectively solve difficult combinatorial optimization problems appearing in various industrial economical and scientific domains Prominent examples of metaheuristics are evolutionary algorithms simulated annealing tabu search scatter search memetic algorithms variable neighborhood search iterated local search greedy randomized adaptive search procedures estimation of distribution algorithms and ant colony optimization [Evolutionary Computation in Combinatorial Optimization](#) Leslie Pérez Cáceres, Sébastien Verel, 2022-04-03 This book constitutes the refereed proceedings of the 22nd European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2022 held as part of Evo 2022 in Madrid Spain during April 20-21 2022 co-located with the Evo 2022 events EvoMUSART EvoApplications and EuroGP The 13 revised full papers presented in this book were carefully reviewed and selected from 28 submissions They present recent theoretical and experimental advances in combinatorial optimization evolutionary algorithms and related research fields

Evolutionary Computation in Combinatorial Optimization Jens Gottlieb, 2006-03-24 This book constitutes the refereed proceedings of the 6th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2006 held in Budapest Hungary in April 2006 The 24 revised full papers presented were carefully reviewed and selected from 77 submissions The papers include coverage of evolutionary algorithms as well as various other metaheuristics like scatter search tabu search and memetic algorithms **Evolutionary Computation in Combinatorial Optimization** Martin S.

Krejca, Markus Wagner, 2025-03-27 This book constitutes the referred proceedings of the 25th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2025 held as part of EvoStar 2025 in Trieste Italy during April 23-25 2025 The 16 full papers presented in this book were carefully reviewed and selected from 43 submissions These papers cover a variety of topics ranging from benchmark creation over genetic programming heuristics for real world and NP hard problems as well as the foundations of evolutionary computation algorithms and other search heuristics to both mixed binary and multi objective optimization **Evolutionary Computation in Combinatorial Optimization** Christian

Blum, Gabriela Ochoa, 2014-08-21 This book constitutes the refereed proceedings of the 14th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2014 held in Granada Spain in April 2014 co-located with the Evo 2014 events EuroGP EvoBIO EvoMUSART and EvoApplications The 20 revised full papers presented were carefully reviewed and selected from 42 submissions The papers cover the following topics swarm intelligence algorithms fitness landscapes and adaptive algorithms real world and routing problems and cooperative and metaheuristic search

Evolutionary Computation in Combinatorial Optimization Günther R. Raidl, Jens Gottlieb, 2005-02-26 This volume contains the proceedings of EvoCOP 2005 the 5th European Conference on Evolutionary Computation in Combinatorial Optimization It was held in Lausanne Switzerland on 30 March 1 April 2005

Evolutionary Computation In Combinatorial Optimization Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Evolutionary Computation In Combinatorial Optimization**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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