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Marco Chiarandini
Luís Paquete · Mike Preuss (Eds.)

Experimental Methods for the Analysis of Optimization Algorithms



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Experimental Methods For The Analysis Of Optimization Algorithms

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Experimental Methods For The Analysis Of Optimization Algorithms:

Experimental Methods for the Analysis of Optimization Algorithms Thomas Bartz-Beielstein,Marco Chiarandini,Luís Paquete,Mike Preuss,2010-11-02 In operations research and computer science it is common practice to evaluate the performance of optimization algorithms on the basis of computational results and the experimental approach should follow accepted principles that guarantee the reliability and reproducibility of results However computational experiments differ from those in other sciences and the last decade has seen considerable methodological research devoted to understanding the particular features of such experiments and assessing the related statistical methods This book consists of methodological contributions on different scenarios of experimental analysis The first part overviews the main issues in the experimental analysis of algorithms and discusses the experimental cycle of algorithm development the second part treats the characterization by means of statistical distributions of algorithm performance in terms of solution quality runtime and other measures and the third part collects advanced methods from experimental design for configuring and tuning algorithms on a specific class of instances with the goal of using the least amount of experimentation The contributor list includes leading scientists in algorithm design statistical design optimization and heuristics and most chapters provide theoretical background and are enriched with case studies This book is written for researchers and practitioners in operations research and computer science who wish to improve the experimental assessment of optimization algorithms and consequently their design **Applied Mechanics Reviews** ,1978 **A Collection of Technical Papers** ,2001 **ASME Technical Papers** , **Aerospace America** ,2006 Cornell University Courses of Study Cornell University,2007 ACM SIGPLAN Notices ,2001-04 **Eighth International Symposium on Laser Metrology** R. Rodriguez-Vera,F. Mendoza-Santoyo,2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *Dissertation Abstracts International* ,2006 Proceedings of the ... American Control Conference ,1988 *Proceedings of the Fourth International Conference on Computer Integrated Manufacturing and Automation Technology*, Troy, New York, October 10-12, 1994 ,1994 Annotation Proceedings of the October 1994 conference Papers cover topics including agile manufacturing and related concepts with emphasis on system integration and applications while panel discussions address government programs such as the Technology Reinvestment Projects Other topics include process modeling and planning Petri net theory integrated design and assembly planning holonic manufacturing systems and discrete event dynamic systems Annotation copyright by Book News Inc Portland OR **Experimental Algorithms** ,2008 This book constitutes the refereed proceedings of the 7th International Workshop on Experimental and Efficient Algorithms WEA 2008 held in Provincetown MA USA in May June 2008 The 26 revised full papers were carefully reviewed and selected from

numerous submissions and present current research on experimental evaluation and engineering of algorithms as well as in various aspects of computational optimization and its applications Special focus is put on the use of experimental methods to guide the design analysis implementation and evaluation of algorithms heuristics and optimization programs **Paper** ,1986

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Bartz-Beielstein,2006-05-09 Experimentation is necessary a purely theoretical approach is not reasonable The new experimentalism a development in the modern philosophy of science considers that an experiment can have a life of its own It provides a statistical methodology to learn from experiments where the experimenter should distinguish between statistical significance and scientific meaning This book introduces the new experimentalism in evolutionary computation providing tools to understand algorithms and programs and their interaction with optimization problems The book develops and applies statistical techniques to analyze and compare modern search heuristics such as evolutionary algorithms and particle swarm optimization Treating optimization runs as experiments the author offers methods for solving complex real world problems that involve optimization via simulation and he describes successful applications in engineering and industrial control projects The book bridges the gap between theory and experiment by providing a self contained experimental methodology and many examples so it is suitable for practitioners and researchers and also for lecturers and students It summarizes results from the author s consulting to industry and his experience teaching university courses and conducting tutorials at international conferences The book will be supported online with downloads and exercises **Aeronautical Engineering**

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