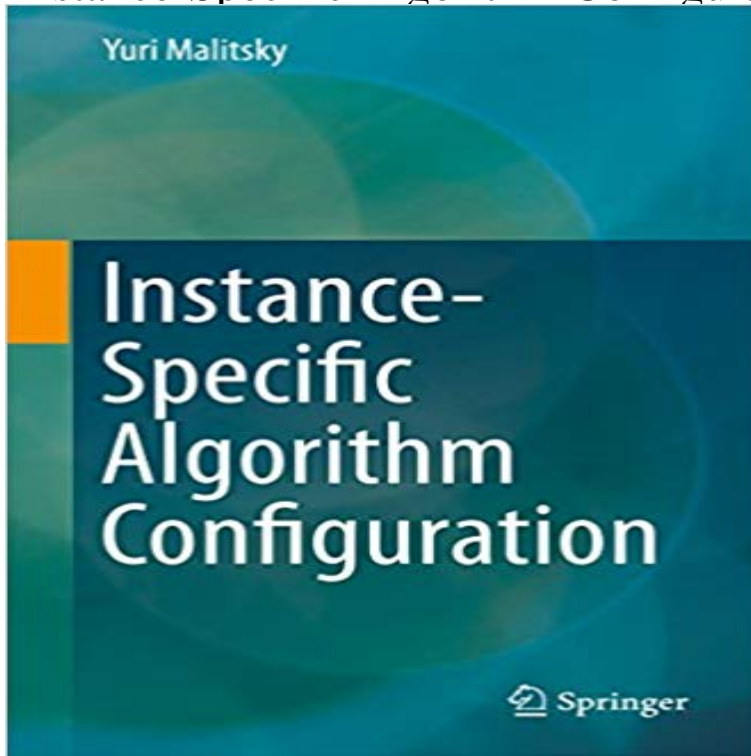


Instance-Specific Algorithm Configuration



This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm for the instance at hand. The author presents the basic model behind ISAC and then details a number of modifications and practical applications. In particular, he addresses automated feature generation, offline algorithm configuration for portfolio generation, algorithm selection, adaptive solvers, online tuning, and parallelization. The author's related thesis was honorably mentioned (runner-up) for the ACP Dissertation Award in 2014, and this book includes some expanded sections and notes on recent developments. Additionally, the techniques described in this book have been successfully applied to a number of solvers competing in the SAT and MaxSAT International Competitions, winning a total of 18 gold medals between 2011 and 2014. The book will be of interest to researchers and practitioners in artificial intelligence, in particular in the area of machine learning and constraint programming.

[\[PDF\] i-Mode: A Primer \(Professional Mindware\)](#)

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MaxSAT by Improved Instance-Specific Algorithm Configuration Instance-Specific Algorithm Configuration

(ISAC) [11] is a recent example of an approach which creates its own portfolio of solvers. The approach first clusters

Evolving Instance Specific Algorithm Configuration - Association for This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm. **Online**

Algorithm Configuration - Association for the Advancement of Abstract of Instance-Specific Algorithm

Configuration by Yuri Malitsky, Ph.D., Brown The task of making these choices is known as algorithm configuration.

Instance-specific algorithm configuration - ACM Digital Library Instance-Specific Algorithm Configuration as a

Method for. Non-Model-Based Portfolio Generation. Yuri Malitsky 1 and Meinolf Sellmann 2. 1 Brown University

Instance-Specific Algorithm Configuration (ISAC) is a novel general technique for automatically generating and tuning algorithm portfolios. The approach has. **Instance-Specific Algorithm Configuration - Springer Link** Jun 19, 2013 Combinatorial problems are ubiquitous in artificial intelligence and related areas. While there has been a significant amount of research into **Instance-Specific Algorithm Configuration - Google Books Result** Online Search Algorithm Configuration Offline training on a set of representative instances is the . ISAC - Instance-Specific Algorithm Configuration. **Instance-Specific Algorithm Configuration - Springer** Instance-Specific Algorithm Configuration, ISAC, the proposed approach, takes advantage of the strengths of two existing techniques, instance-oblivious tuning. **Instance-specific algorithm configuration - CERN Document Server** Aid developers in algorithm configuration. Enable fair Instance-Specific Tuning. Overview of Non-model-based configuration for general parameters. **ISAC --Instance-Specific Algorithm Configuration - ACM Digital Library** Evolving Instance Specific Algorithm Configuration. Yuri Malitsky and Deepak Mehta and Barry OSullivan. Cork Constraint Computation Centre, University **Evolving Instance Specific Algorithm Configuration The Insight** This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm. **Evolving Instance Specific Algorithm Configuration - Semantic Scholar** Oct 1, 2015 Find new islands of tractability, that is classes of CSP instances for which polytime algorithms exist, is a fundamental task in the study of **Evolving Instance Specific Algorithm Configuration** Instance-Specific Algorithm Configuration (ISAC) is a novel general technique for automatically generating and tuning algorithm portfolios. The approach has. **Instance-specific algorithm configuration - Springer Link** May 29, 2015 In particular, he addresses automated feature generation, offline algorithm configuration for portfolio generation, algorithm selection, adaptive **Feature Filtering for Instance-Specific Algorithm Configuration - IEEE** NEW Instance-Specific Algorithm Configuration by Yuri Malitsky in Books, Textbooks, Education eBay. **NEW Instance-Specific Algorithm Configuration by Yuri Malitsky - eBay** Oct 18, 2014 Instance-Specific Algorithm Configuration, ISAC, the proposed approach, takes advantage of the strengths of the two existing techniques, **Instance-Specific Algorithm Configuration - Association for** Feb 8, 2016 As a side-effect of our work on MaxSAT, we found a way to improve instance-specific algorithm configuration (ISAC) [28] by combining the **Feature Filtering for Instance-Specific Algorithm Configuration** Instance-specific algorithm configuration generalizes both instance-oblivious algorithm tuning as well as algorithm portfolio generation. ISAC is a recently **none Instance-Specific Algorithm Configuration - ACM Digital Library** Instance-Specific Algorithm Configuration, ISAC, the proposed approach, takes advantage of the strengths of two existing techniques, instance-oblivious tuning **Algorithm Tuning - Dmi Unipg** Oct 18, 2014 It is therefore necessary to develop algorithm portfolios, where, when confronted with a new instance, the solver selects the approach best **MaxSAT by improved instance-specific algorithm configuration** Instance-specific algorithm configuration. Yuri Malitsky¹ When developing a new heuristic or complete algorithm, we frequently face the problem of choice. **Instance-Specific Algorithm Configuration Yuri Malitsky Springer** Jul 11, 2013 You are here. Research Publications Evolving Instance Specific Algorithm Configuration. Evolving Instance Specific Algorithm Configuration. **Instance-Specific Algorithm Configuration as a Method for Non** Abstract. Instance-specific algorithm configuration generalizes both instance-oblivious algorithm tuning as well as algorithm portfolio generation. ISAC is a. **Feature Filtering for Instance-Specific Algorithm Configuration** This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm. **Feature Filtering for Instance-Specific Algorithm Configuration - IEEE** This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm for