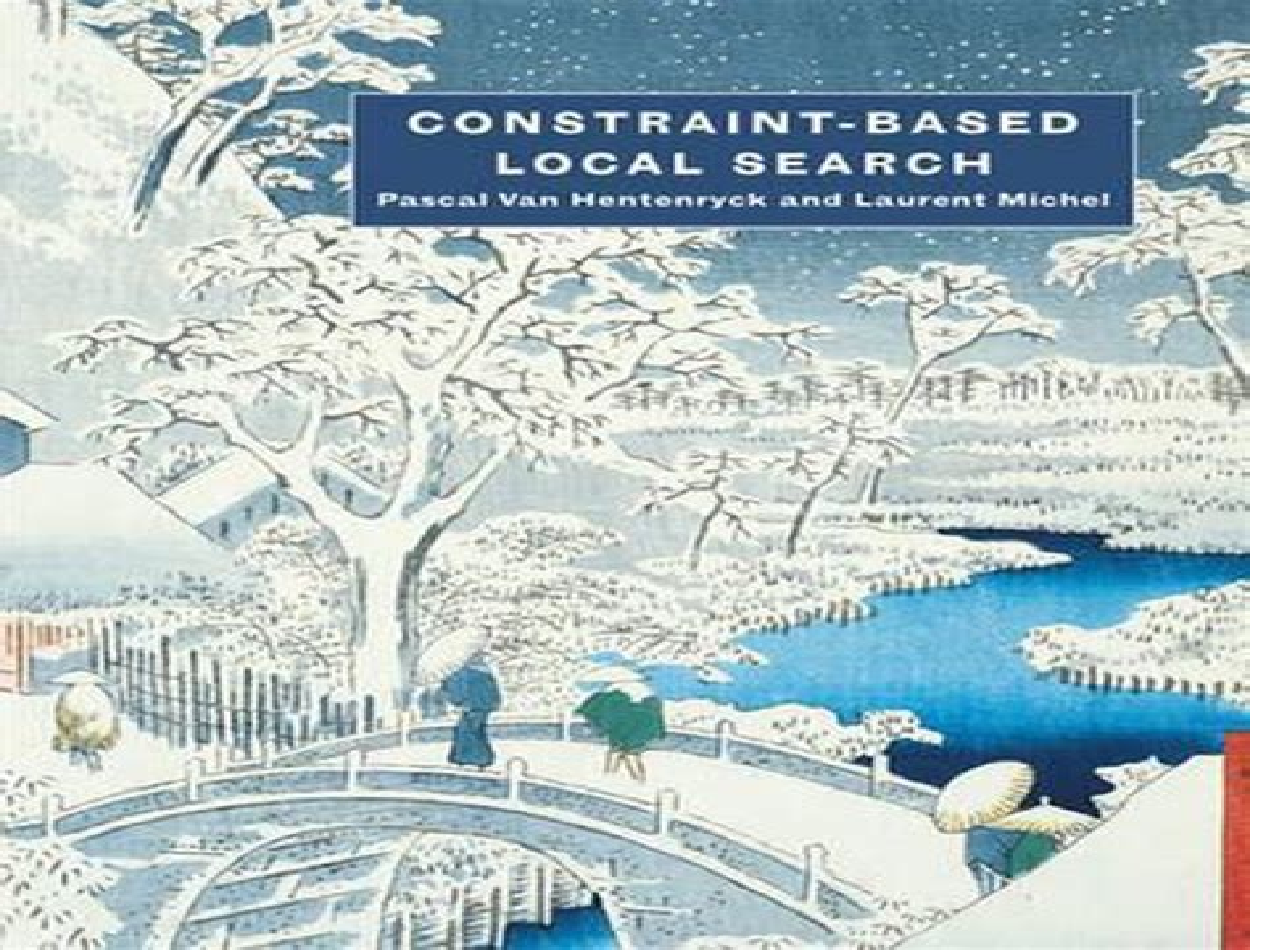


The background of the slide is a traditional Japanese woodblock print illustration. It depicts a serene landscape with a winding river or path in the foreground. Several figures, including a person in a blue robe and another in a green robe, are walking across a bridge. The scene is framed by large, gnarled trees with dense foliage. In the distance, there are more trees and a small building. The overall style is characteristic of Edo-period Japanese art, with fine lines and a muted color palette.

# CONSTRAINT-BASED LOCAL SEARCH

Pascal Van Hentenryck and Laurent Michel

# Constraint Based Local Search

**Pascal Van Hentenryck, Laurent Michel**



## **Constraint Based Local Search:**

**Constraint-based Local Search** Pascal Van Hentenryck, Laurent Michel, 2005 The ubiquity of combinatorial optimization problems in our society is illustrated by the novel application areas for optimization technology which range from supply chain management to sports tournament scheduling Over the last two decades constraint programming has emerged as a fundamental methodology to solve a variety of combinatorial problems and rich constraint programming languages have been developed for expressing and combining constraints and specifying search procedures at a high level of abstraction Local search approaches to combinatorial optimization are able to isolate optimal or near optimal solutions within reasonable time constraints This book introduces a method for solving combinatorial optimization problems that combines constraint programming and local search using constraints to describe and control local search and a programming language COMET that supports both modeling and search abstractions in the spirit of constraint programming After an overview of local search including neighborhoods heuristics and metaheuristics the book presents the architecture and modeling and search components of constraint based local search and describes how constraint based local search is supported in COMET The book describes a variety of applications arranged by meta heuristics It presents scheduling applications along with the background necessary to understand these challenging problems The book also includes a number of satisfiability problems illustrating the ability of constraint based local search approaches to cope with both satisfiability and optimization problems in a uniform fashion

*Extracting and Exploiting Interaction Information in Constraint-based Local Search* Alastair Neil Andrew, 2014 Local Search is a simple and effective approach for solving complex constrained combinatorial problems To maximise performance Local Search can utilise problem specific information and be hybridised with other algorithms in an often intricate fashion This results in algorithms that are tightly coupled to a single problem and difficult to characterise experience gained whilst solving one problem may not be applicable in another Even if it is the translation can be a non trivial task offering little opportunity for code reuse Constraint Programming CP and Linear Programming LP can be applied to many of the same combinatorial problems as Local Search but do not exhibit these restrictions They use a different paradigm one where a problem is captured as a general model and then solved by a independent solver Improvements to the underlying solver can be harnessed by any model The CP community show signs of moving Local Search in this direction Constraint Based Local Search CBLS strives to achieve the CP ideal of Model Search CBLS provides access to the performance benefits of Local Search without paying the price of being specific to a single problem This thesis explores whether information to improve the performance of CBLS can be automatically extracted and exploited without compromising the independence of the search and model To achieve these goals we have created a framework built upon the CBLS language COMET This framework primarily focusses on the interface between two core components the constraint model and the search neighbourhoods Neighbourhoods define the behaviour of a Local Search and how it can traverse the

search space By separating the neighbourhoods from the model we are able to create an independent analysis component The first aspect of our work is to uncover information about the interactions between the constraint model and the search neighbourhoods The second goal is to look at how information about the behaviour of neighbourhoods with respect to a set of constraints can be used within the search process In particular we concentrate on enhancing a form of Local Search called Variable Neighbourhood Search VNS allowing it to make dynamic decisions based upon the current search state The resulting system retains the domain independence of model based solution technologies whilst being able to configure itself automatically to a given problem This reduces the level of expertise required to adopt CBLS and provides users with another potential tool for tackling their constraint problems

### **Integration of AI and OR Techniques in Constraint**

**Programming** Laurent Michel,2015-04-15 This book constitutes the proceedings of the 12th International Conference on the Integration of Artificial Intelligence AI and Operations Research OR Techniques in Constraint Programming CPAIOR 2015 held in Barcelona Spain in May 2015 The 29 papers presented together with 8 short papers in this volume were carefully reviewed and selected from 90 submissions The purpose of the conference series is to bring together researchers in the fields of Constraint Programming Artificial Intelligence and Operations Research to explore ways of solving hard and large scale combinatorial optimization problems that emerge in various industrial domains Pooling the skills and strengths of this diverse group of researchers has proved extremely effective and valuable during the past decade leading to improvements and cross fertilization between the three fields as well as breakthrough for actual applications

Principles and Practice of Constraint Programming -- CP 2011 Jimmy Lee,2011-09-02 This book constitutes the refereed proceedings of the 17th International Conference on Principles and Practice of Constraint Programming CP 2011 held in Perugia Italy September 12 16 2011 The 51 revised full papers and 7 short papers presented together with three invited talks were carefully reviewed and selected from 159 submissions The papers are organized in topical sections on algorithms environments languages models and systems applications such as decision making resource allocation and agreement technologies

**Springer Handbook of Computational Intelligence** Janusz Kacprzyk,Witold Pedrycz,2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured

**Principles and Practice of Constraint Programming - CP 2009** Ian P. Gent,2009-09-07 This volume contains the papers presented at CP 2009 The 15th International Conference on Principles and Practice of Constraint Programming It was

held from September 20-24 2009 at the Rectory of the New University of Lisbon Portugal Everyone involved with the conference thanks our sponsors for their support There were 128 submissions to the research track of which 53 were accepted for a rate of 41.4% Each submission was reviewed by three reviewers with a small number of additional reviews obtained in exceptional cases Each review was either by a Programme Committee member or by a colleague invited to help by a committee member thanks to their particular expertise Papers submitted as long papers were accepted at full length or not at all It is important to note that papers submitted as short papers were held to the same high standards of quality as long papers There is thus no distinction in these proceedings between long and short papers except of course the number of pages they occupy As it happens the acceptance rates of short and long papers were very similar indeed

There were 13 submissions to the application track of which 8 were accepted for a rate of 61.5% Papers underwent the same review process as regular papers and there was not a separate committee for reviewing application track papers However papers in the application track were not required to be original or novel research but to be original and novel as an application of constraints

**Principles and Practice of Constraint Programming** Gilles Pesant, 2015-08-12 This book constitutes the refereed conference proceedings of the 21st International Conference on Principles and Practice of Constraint Programming CP 2015 held in Cork Ireland in August-September 2015 This edition of the conference was part of George Boole 200 a celebration of the life and work of George Boole who was born in 1815 and worked at the University College of Cork It was also co-located with the 31st International Conference on Logic Programming ICLP 2015 The 48 revised papers presented together with 3 invited talks and 16 abstract papers were carefully selected from numerous submissions The scope of CP 2014 includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning

**Handbook of Parallel Constraint Reasoning** Youssef Hamadi, Lakhdar Sais, 2018-04-05 This is the first book presenting a broad overview of parallelism in constraint based reasoning formalisms In recent years an increasing number of contributions have been made on scaling constraint reasoning thanks to parallel architectures The goal in this book is to overview these achievements in a concise way assuming the reader is familiar with the classical sequential background It presents work demonstrating the use of multiple resources from single machine multi-core and GPU based computations to very large scale distributed execution platforms up to 80,000 processing units The contributions in the book cover the most important and recent contributions in parallel propositional satisfiability SAT maximum satisfiability MaxSAT quantified Boolean formulas QBF satisfiability modulo theory SMT theorem proving TP answer set programming ASP mixed integer linear programming MILP constraint programming CP stochastic local search SLS optimal path finding with A model checking for linear time temporal logic MC LTL binary decision diagrams BDD and model based diagnosis MBD The book is suitable for researchers graduate students advanced undergraduates and practitioners who wish to learn about the state of the art in parallel constraint

reasoning     *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 Evo COP 2014 held in Granada Spain in April 2014 co located with the Evo 2014 events Euro GP Evo BIO Evo MUSART and Evo Applications 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     **Principles and Practice of Constraint Programming** Barry O'Sullivan, 2014-08-13 This book constitutes the refereed conference proceedings of the 20th International Conference on Principles and Practice of Constraint Programming CP 2014 held in Lyon France in September 2014 The 65 revised papers presented together with 4 invited talks were carefully selected from 108 submissions The scope of CP 2014 includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation and agreement technologies     *Principles and Practice of Constraint Programming - CP 2007* Christian Bessiere, 2007-09-06 This book constitutes the refereed proceedings of the 13th International Conference on Principles and Practice of Constraint Programming CP 2007 It contains 51 revised full papers and 14 revised short papers presented together with eight application papers and the abstracts of two invited lectures All current issues of computing with constraints are addressed ranging from methodological and foundational aspects to solving real world problems in various application fields     Principles and Practice of Constraint Programming Thomas Schiex, Simon de Givry, 2019-09-23 This book constitutes the proceedings of the 25th International Conference on Principles and Practice of Constraint Programming CP 2019 held in Stamford CT USA France in September October 2019 The 44 full papers presented in this volume were carefully reviewed and selected from 118 submissions They deal with all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning The papers were organized according to the following topics tracks technical track application track multi agent and parallel CP track testing and verification track CP and data science track computational sustainability and CP and life sciences track     Principles and Practice of Constraint Programming - CP 2006 Frédéric Benhamou, 2006-09-29 This book constitutes the refereed proceedings of the 12th International Conference on Principles and Practice of Constraint Programming CP 2006 held in Nantes France in September 2006 The 42 revised full papers and 21 revised short papers presented together with extended abstracts of four invited talks were carefully reviewed and selected from 142 submissions All current issues of computing with constraints are addressed     **Intelligent Distributed Computing V** F.M.T. Brazier, Kees Nieuwenhuis, Gregor Pavlin, Martijn Warnier, Costin Badica, 2011-10-08 This book represents the combined peer reviewed proceedings of the Fifth International Symposium on Intelligent Distributed Computing IDC 2011 and of the Third International Workshop on Multi Agent Systems

Technology and Semantics MASTS 2011 Both events were held in Delft The Netherlands during October 5 7 2011 The 33 contributions published in this book address many topics related to theory and applications of intelligent distributed computing and multi agent systems including adaptive and autonomous distributed systems agent programming ambient assisted living systems business process modeling and verification cloud computing coalition formation decision support systems distributed optimization and constraint satisfaction gesture recognition intelligent energy management in WSNs intelligent logistics machine learning mobile agents parallel and distributed computational intelligence parallel evolutionary computing trust metrics and security scheduling in distributed heterogenous computing environments semantic Web service composition social simulation and software agents for WSNs     Hybrid Optimization Pascal van Hentenryck, Michela Milano, 2010-11-05 Hybrid Optimization focuses on the application of artificial intelligence and operations research techniques to constraint programming for solving combinatorial optimization problems This book covers the most relevant topics investigated in the last ten years by leading experts in the field and speculates about future directions for research This book includes contributions by experts from different but related areas of research including constraint programming decision theory operations research SAT artificial intelligence as well as others These diverse perspectives are actively combined and contrasted in order to evaluate their relative advantages This volume presents techniques for hybrid modeling integrated solving strategies including global constraints decomposition techniques use of relaxations and search strategies including tree search local search and metaheuristics Various applications of the techniques presented as well as supplementary computational tools are also discussed     AI 2013: Advances in Artificial Intelligence Stephen Cranefield, Abhaya C. Nayak, 2013-11-08 This book constitutes the refereed proceedings of the 26th Australasian Joint Conference on Artificial Intelligence AI 2013 held in Dunedin New Zealand in December 2013 The 35 revised full papers and 19 revised short papers presented were carefully reviewed and selected from 120 submissions The papers are organized in topical sections as agents AI applications cognitive modelling computer vision constraint satisfaction search and optimisation evolutionary computation game playing knowledge representation and reasoning machine learning and data mining natural language processing and information retrieval planning and scheduling     Hybrid Metaheuristics El-ghezali Talbi, 2012-07-31 The main goal of this book is to provide a state of the art of hybrid metaheuristics The book provides a complete background that enables readers to design and implement hybrid metaheuristics to solve complex optimization problems continuous discrete mono objective multi objective optimization under uncertainty in a diverse range of application domains Readers learn to solve large scale problems quickly and efficiently combining metaheuristics with complementary metaheuristics mathematical programming constraint programming and machine learning Numerous real world examples of problems and solutions demonstrate how hybrid metaheuristics are applied in such fields as networks logistics and transportation bio medical engineering design scheduling     *Soft Computing Applications* Valentina Emilia Balas, Lakhmi C.

Jain, Branko Kovačević, 2015-11-02 These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications or SOFA 2014 held on 24-26 July 2014 in Timisoara, Romania. This edition was organized by the University of Belgrade, Serbia, in conjunction with the Romanian Society of Control Engineering and Technical Informatics (SRAIT) Arad Section, The General Association of Engineers in Romania, Arad Section, Institute of Computer Science, Iasi Branch of the Romanian Academy, and IEEE Romanian Section. The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness, and low solution cost. Soft computing facilitates the use of fuzzy logic, neurocomputing, evolutionary computing, and probabilistic computing in combination, leading to the concept of hybrid intelligent systems. The combination of such intelligent systems tools and a large number of applications introduces a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains. The conference papers included in these proceedings, published post-conference, were grouped into the following areas of research: Image, Text, and Signal Processing; Intelligent Transportation Modeling and Applications; Biomedical Applications; Neural Networks and Applications; Knowledge-Based Technologies for Web Applications; Cloud Computing; Security Algorithms and Computer Networks; Knowledge-Based Technologies; Soft Computing Techniques for Time Series Analysis; Soft Computing and Fuzzy Logic in Biometrics; Fuzzy Applications; Theory and Fuzzy Control; Business Process Management; Methods and Applications in Electrical Engineering. The volumes provide useful information to professors, researchers, and graduated students in the area of soft computing techniques and applications, as they report new research work on challenging issues. Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems Andrea Lodi, Michela Milano, Paolo Toth, 2010-06-14 This book constitutes the refereed proceedings of the 7th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CPAIOR 2010) held in Bologna, Italy, in June 2010. The 18 revised full papers and 17 revised short papers presented together with the extended abstracts of 3 invited talks were carefully reviewed and selected from 72 submissions. The papers are focused on both theoretical and practical application-oriented issues and present current research with a special focus on the integration and hybridization of the approaches of constraint programming, artificial intelligence, and operations research technologies for solving large-scale and complex real-life combinatorial optimization problems. *IAENG Transactions on Engineering Technologies* Gi-Chul Yang, Sio-Iong Ao, Xu Huang, Oscar Castillo, 2012-12-28 This volume contains revised and extended research articles written by prominent researchers participating in the conference. Topics covered include engineering, physics, communications, systems, control theory, automation, engineering, mathematics, scientific computing, industrial engineering, and industrial applications. *IAENG Transactions on Engineering Technologies* Special Issue of the International MultiConference of Engineers and Computer Scientists 2012 offers the state of art of tremendous advances in



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