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	Application software
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	Algorithms
	Database management
	Data mining
	Artificial Intelligence
	Information Systems Applications (incl. Internet) Simulation and Modeling
	Algorithm Analysis and Problem Complexity
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Nota di contenuto	Introduction to Combinatorial Optimisation in Numberjack Data Mining and Constraints: An Overview New Approaches to Constraint Acquisition ModelSeeker: Extracting Global Constraint Models from Positive Examples Learning Constraint Satisfaction Problems: An ILP Perspective Learning Modulo Theories Algorithm Selection for Combinatorial Search Problems: A Survey Adapting Consistency in Constraint Solving Modeling in MiningZinc Partition-Based Clustering Using Constraint Optimisation The Inductive Constraint Programming Loop ICON Loop Carpooling Show Case ICON Loop

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	Health Show Case ICON Loop Energy Show Case.
Sommario/riassunto	A successful integration of constraint programming and data mining has the potential to lead to a new ICT paradigm with far reaching implications. It could change the face of data mining and machine learning, as well as constraint programming technology. It would not only allow one to use data mining techniques in constraint programming to identify and update constraints and optimization criteria, but also to employ constraints and criteria in data mining and machine learning in order to discover models compatible with prior knowledge. This book reports on some key results obtained on this integrated and cross- disciplinary approach within the European FP7 FET Open project no. 284715 on "Inductive Constraint Programming" and a number of associated workshops and Dagstuhl seminars. The book is structured in five parts: background; learning to model; learning to solve; constraint programming for data mining; and showcases