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Soggetti	Computers
	Artificial intelligence
	Computer science—Mathematics
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	Artificial Intelligence
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Nota di contenuto	Social Software for Coalition Formation Investigating Finite Models of Non-classical Logics with Relation Algebra and RelView On the Logic of Medical Decision Support Generalizing and Modifying the Hoede-Bakker Index An Environment for Specifying Properties of Dyadic Relations and Reasoning About Them II: Relational Presentation of Non-classical Logics Relational Approach to Order-of-Magnitude Reasoning Relational Logics and Their Applications Fuzzy Information Relations and Operators: An Algebraic Approach Based on Residuated Lattices Aggregation of Fuzzy Relations and Preservation of Transitivity Flexible Query Answering Using Distance-Based Fuzzy Relations General Representation Theorems for Fuzzy Weak Orders

1.

Sommario/riassunto This book is a follow-up of LNCS volume 2929 with the same title, and presents the major results of COST action 274 (2002-2005), TARSKI: Theory and - plications of Relational Structures as Knowledge Instruments. Relational structures abound in the daily environment: relational databases, data-mining, scaling procedures, preference relations, etc. Reasoning about, and with, relations has a long-standing European tradition, which may be divided into three broad areas: 1. Algebraic Logic: algebras of relations, relational semantics, and algebras and logics derived from information systems. 2. Computational Aspects of Automated Relational Reasoning: decidability and complexity of algorithms, network satisfaction. 3. Applications: social choice, AI, linguistics, psychology, economics, etc. The main objective of the ?rst TARSKI book (LNCS 2929) was to advance the	eorems for Lattices with Negations: A n Algebras II Some Aspects of Lattice ct Algebras A Decision Procedure for ided and Complete Lattices The iss of Continuous T-Norms from an ggregation on Bipolar Scales.		is: A Lattice ure for n
understanding of relational structures and the use of relational methods in applicable object domains. There were the following sub- objectives: 1. Tostudythesemanticalandsyntacticalaspectsofrelationalstructuresarising from 'real world' situations 2. To investigateautomatedinference for relationalsystems, and, wherepossible or feasible, develop deductive systems which can be implemented into industrial applications, such as diagnostic systems 3. To develop non-invasive scaling methods for predicting relational data 4. To make software for dealing with relational systems commonly available We are con?dent that the presen book will further the understanding of int- disciplinary issues involving relational reasoning. This book consists of papers which give a clear and self-contained overview of the results obtained by the TARSKI action, typically obtained by di?erent persons from di?erent work - eas.	S volume 2929 with the same title, and OST action 274 (2002-2005), TARSKI: ional Structures as Knowledge es abound in the daily environment: ng, scaling procedures, preference , and with, relations has a long-standing be divided into three broad areas: 1. ations, relational semantics, and m information systems. 2. mated Relational Reasoning: decidability etwork satisfaction. 3. Applications: ychology, economics, etc. The main ook (LNCS 2929) was to advance the ctures and the use of relational omains. There were the following sub- cticalaspectsofrelationalstructuresarising o investigateautomatedinference for ossible or feasible, develop deductive nted into industrial applications, such as op non-invasive scaling methods for make software for dealing with vailable We are con?dent that the present ling of int- disciplinary issues involving consists of papers which give a clear the results obtained by the TARSKI erent persons from di?erent work - eas.	Sommario/riassunto	e, and SKI: nt: anding 1. dability s: ain the sub- sarising or ctive uch as for present lving lear KI - eas.