

1. Record Nr.	UNINA9911020082003321
Titolo	Models in spatial analysis / / edited by Lena Sanders
Pubbl/distr/stampa	London ; ; Newport Beach, CA, : ISTE, 2007
ISBN	1-280-84762-X 9786610847624 0-470-39448-X 0-470-61225-8 1-84704-559-6
Descrizione fisica	1 online resource (349 p.)
Collana	ISTE ; ; v.661
Altri autori (Persone)	SandersLena
Disciplina	910.01/5195
Soggetti	Geography - Mathematical models Spatial analysis (Statistics) - Mathematical models Geomatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Models in Spatial Analysis; Table of Contents; Preface; Introduction; Chapter 1. Modeling Concepts Used in Spatial Analysis; 1.1. Introduction; 1.2. Modeling universals; 1.2.1. Logical frames for modeling; 1.2.2. The language of models; 1.2.2.1. Material or physical model languages; 1.2.2.2. The language of images: iconic models; 1.2.2.3. Modeling in mathematical language; 1.3. A few specific features of spatial models; 1.4. Spatial models: a study grid; 1.4.1. Sequencing and explanation; 1.4.2. The group and the individual; 1.4.3. The random and the determined; 1.4.4. Movement and balance 1.5. Conclusion1.6. Bibliography; Chapter 2. Geographical Scales and Multidimensional Statistical Methods; 2.1. Introduction; 2.2. Scaling issues; 2.2.1. The consideration of different geographical levels: two possible approaches; 2.2.2. Formalization of relations between two levels; 2.2.2.1. Nested relations and partition graph; 2.2.2.2. Neighborhood relations and proximity graphs; 2.2.3. Processing of multilevel information; 2.2.3.1. Multilevel structure and attributes; 2.2.3.2. Multidimensional statistical methods; 2.3. Change of levels, change of structures; 2.3.1. Scale and variability

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 2.3.2.1. Analysis of aggregated levels or interclass analysis;
 2.3.2.2. Transition analysis between two levels or intraclass analysis;
 2.3.3. Application of outlying Ouagadougou space to the social and spatial organization;
 2.4. Integration of the different levels;
 2.4.1. The scale: a set of territorial and spatial references;
 2.4.2. The analysis of local differences;
 2.4.3. Other local analysis methods;
 2.5. Multilevel models;
 2.5.1. Contextual effects and regression models;
 2.5.2. Multilevel modeling;
 2.6. Conclusion;
 2.7. Bibliography
 Chapter 3. Location of Public Services: From Theory to Application
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 3.2. The modeling approach;
 3.2.1. A typology of public services: an attempt;
 3.2.2. Estimating demand;
 3.2.3. Analyzing supply;
 3.2.4. Adjusting supply to demand;
 3.2.5. Evaluating the solutions;
 3.2.6. Methodological perspectives;
 3.3. A prototype location model: the k-median;
 3.4. An example: recycling centers;
 3.4.1. The problem: the optimal location of recycling centers;
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 4.3. The conceptual framework of time-geography;
 4.3.1. The creation of a "notation system";
 4.3.2. Tools to decrypt daily life;
 4.3.2.1. Trajectory, station, project: basic concepts;
 4.3.2.2. Different types of constraints;
 4.3.2.3. A transversal analysis of the "three worlds";
 4.4. Time-geography in practice
 4.4.1. Simulation of individual activity programs: public transport possibilities in the city of Karlstad - an application by Bo Lenntorp

Sommario/riassunto

This title provides a broad overview of the different types of models used in advanced spatial analysis. The models concern spatial organization, location factors and spatial interaction patterns from both static and dynamic perspectives. Each chapter gives a broad overview of the subject, covering both theoretical developments and practical applications. The advantages of an interdisciplinary approach are illustrated in the way that the viewpoint of each of the individual disciplines are brought together when considering questions relevant to spatial analysis. The authors of the chapters

2. Record Nr.	UNINA9910143895803321
Titolo	Logic for Programming, Artificial Intelligence, and Reasoning : 9th International Conference, LPAR 2002, Tbilisi, Georgia, October 14-18, 2002 Proceedings / / edited by Matthias Baaz, Andrei Voronkov
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002
ISBN	3-540-36078-6
Edizione	[1st ed. 2002.]
Descrizione fisica	1 online resource (XIV, 470 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2514
Disciplina	006.3
Soggetti	Computers Software engineering Artificial intelligence Computer science Computer logic Theory of Computation Software Engineering/Programming and Operating Systems Artificial Intelligence Computer Science, general Software Engineering Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Improving On-Demand Strategy Annotations -- First-Order Logic as a Constraint Programming Language -- Maintenance of Formal Software Developments by Stratified Verification -- A Note on Universal Measures for Weak Implicit Computational Complexity -- Extending Compositional Message Sequence Graphs -- Searching for Invariants Using Temporal Resolution -- Proof Planning for Feature Interactions: A Preliminary Report -- An Extension of BDICTL with Functional Dependencies and Components -- Binding Logic: Proofs and Models -- Directed Automated Theorem Proving -- A Framework for Splitting BDI Agents -- On the Complexity of Disjunction and Explicit Definability Properties in Some Intermediate Logics -- Using BDDs with

Combinations of Theories -- On Expressive Description Logics with Composition of Roles in Number Restrictions -- Query Optimization of Disjunctive Databases with Constraints through Binding Propagation -- A Non-commutative Extension of MELL -- Procedural Semantics for Fuzzy Disjunctive Programs -- Pushdown Specifications -- Theorem Proving with Sequence Variables and Flexible Arity Symbols -- Games, Probability, and the Quantitative λ -Calculus qM ? -- Parallelism and Tree Regular Constraints -- Gödel Logics and Cantor-Bendixson Analysis -- A Semantics for Proof Plans with Applications to Interactive Proof Planning -- An Isomorphism between a Fragment of Sequent Calculus and an Extension of Natural Deduction -- Proof Development with λ MEGA: λ Is Irrational -- A Local System for Linear Logic -- Investigating Type-Certifying Compilation with Isabelle -- Automating Type Soundness Proofs via Decision Procedures and Guided Reductions -- ABox Satisfiability Reduced to Terminological Reasoning in Expressive Description Logics -- Fuzzy Prolog: A Simple General Implementation Using (R).

Sommario/riassunto

This volume contains the papers presented at the Ninth International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR 2002), held on October 14-18, 2002, at the University of Tbilisi (Georgia), together with the Third International Workshop on Implementation of Logics. There were 68 submissions, of which eight belonged to the special submission category of experimental papers, intended to describe implementations or comparisons of systems, or experiments with systems. Each submission was reviewed by at least three program committee members and an electronic program committee meeting was held via the Internet. The number of submissions and short reviewing period caused a large amount of work, and we are very grateful to the other 22 PC members for their efficiency and for the quality of their reviews and discussions. Finally, the committee decided to accept 30 papers. The programme also includes three invited lectures and a poster session. Apart from the programme committee, we would also like to thank the other people who made LPAR 2002 possible: the additional referees, and the local arrangements chairs Khimuri Rhukia, Kote Phakadze, Gela Chankvetadze, and Jemal Antidze. The Internet-based submission software and the program committee discussion software were provided by the second co-chair. August 2002
Matthias Baaz Andrei Voronkov Conference Organization Program Chairs
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