PARTS AND PLACES

THE STRUCTURES OF SPATIAL REPRESENTATION

ROBERTO CASATI AND ACHILLE C. VARZI

Parts And Places The Structures Of Spatial Representation

Shasha Hu

Parts And Places The Structures Of Spatial Representation:

   Parts and Places Roberto Casati,Achille C. Varzi,1999 Thinking about space is thinking about spatial things The table is on the carpet hence the carpet is under the table The vase is in the box hence the box is not in the vase But what does it mean for an object to be somewhere How are objects tied to the space they occupy In this book Roberto Casati and Achille C Varzi address some of the fundamental issues in the philosophy of spatial representation Their starting point is an analysis of the interplay betwen mereology the study of part whole relations topology the study of spatial continuity and comapctness and the theory of spatial location proper This leads to a unified framework for spatial representation understood quite broadly as a theory of the representation of spatial entities The framework is then tested against some classical metaphysical questions such as Are parts essential to their whole Is spatial co location a sufficient criterion of identity What if anything distinguishes material objects from events and other spatial entities The concluding chapters deal with applications to topics as diverse as the logical analysis of movement and the semantics of maps   *Leibniz and the Structure of Sciences* Vincenzo De Risi,2020-01-01 The book offers a collection of essays on various aspects of Leibniz s scientific thought written by historians of science and world leading experts on Leibniz The essays deal with a vast array of topics on the exact sciences Leibniz s logic mereology the notion of infinity and cardinality the foundations of geometry the theory of curves and differential geometry and finally dynamics and general epistemology Several chapters attempt a reading of Leibniz s scientific works through modern mathematical tools and compare Leibniz s results in these fields with 19th and 20th Century conceptions of them All of them have special care in framing Leibniz s work in historical context and sometimes offer wider historical perspectives that go much beyond Leibniz s researches A special emphasis is given to effective mathematical practice rather than purely epistemological thought The book is addressed to all scholars of the exact sciences who have an interest in historical research and Leibniz in particular and may be useful to historians of mathematics physics and epistemology mathematicians with historical interests and philosophers of science at large   **Conceptual Structures: Inspiration and Application** Pascal Hitzler,2006-06-29 This book constitutes the refereed proceedings of the 14th International Conference on Conceptual Structures ICCS 2006 held in Aalborg Denmark in July 2006 The volume presents 24 revised full papers together with 6 invited papers The papers address topics such as conceptual structures their interplay with language semantics and pragmatics formal methods for concept analysis and contextual logic modeling representation and visualization of concepts conceptual knowledge acquisition and more   *Teaching and Mobile Learning* Flavia Santoianni,Corrado Petrucco,Alessandro Ciasullo,Daniele Agostini,2022-01-31 Teaching and Mobile Learning Interactive Educational Design is a groundbreaking book which shows how to design innovative educational mobile learning environments to instructional designers curriculum developers and learning professionals The book aims to solicit teachers educators and practitioners to adapt their teaching with the help of educational digital models related to mobile technologies

Mobile learning is a revolution in concepts like space sound production and learning to get more and more customized in always connected and ever changing educational mobile learning environments Researchers and academicians can be trained in cognition processes in learning management of mixed reality and virtual bodies Mixed reality mobile technologies are becoming tools for education and training in mixed reality mobile learning Readers of this book will understand how user and device innovative interactions are borderline with attention deficit disorder digital amnesia and information overload The book develops educational knowledge on how to manage mobile technology and specific learning disorders to monitor the use of smartphones and technology tools and to empower their role in learning enhancement processes **Strategy Representation** Andrew S. Gordon,2004-07-16 Strategy Representation An Analysis of Planning Knowledge describes an innovative methodology for investigating the conceptual structures that underlie human reasoning This work explores the nature of planning strategies the abstract patterns of planning behavior that people recognize across a broad range of real world situations With a sense of scale that is rarely seen in the cognitive sciences this book catalogs 372 strategies across 10 different planning domains business practices education object counting Machiavellian politics warfare scientific discovery personal relationships musical performance and the anthropomorphic strategies of animal behavior and cellular immunology Noting that strategies often serve as the basis for analogies that people draw across planning situations this work attempts to explain these analogies by defining the fundamental concepts that are common across all instances of each strategy By aggregating evidence from each of the strategy definitions provided the representational requirements of strategic planning are identified The important finding is that the concepts that underlie strategic reasoning are of incredibly broad scope Nearly 1 000 fundamental concepts are identified covering every existing area of knowledge representation research and many areas that have not yet been adequately formalized particularly those related to common sense understanding of mental states and processes An organization of these concepts into 48 fundamental areas of knowledge and representation is provided offering an invaluable roadmap for progress within the field **Toward a Directionalist Theory of Space** H. Scott Hestevold,2020-07-02 In Toward a Directionalist Theory of Space On Going Nowhere H Scott Hestevold formulates a new relationalist theory of space by appealing to the view that the universe is directioned in the sense that there exist directional relations a class of spatial relations that Leibniz overlooked Extending the directionalist relationalist theory of space to the problem of when it is that discrete objects compose a whole Hestevold revisits his answer to the Special Composition Question He also uses the directionalist relationalist theory to formulate reductivist theories of boundaries and holes theories that may allow one to resist the view that boundaries and holes are ontologically parasitic entities Finally he explores directionalism relationalism vis vis spacetime After noting findings of modern physics that favor substantivalist spacetime and then developing metaphysical concerns that favor instead directionalist relationalist spacetime Hestevold notes the ontological benefit of endorsing spatiotemporal directional relations even if spacetime substantivalism is the

winning theory   **Spatial Information Theory. Foundations of Geographic Information Science** Werner Kuhn,Michael F. Worboys,Sabine Timpf,2003-10-25 COSIT theseriesofConferencesonSpatialInformationTheory hasbeenaround for more than ten years Its hallmarks are a fruitful interdisciplinary dialogue between computational and human perspectives on spatio temporal information and a thorough review process that selects the best papers while giving all thors detailed feedback on how to develop their work A clear pro le of the COSIT community has emerged from the series of conference proceedings all published as Springer Lecture Notes in Computer Science and from the per nent web site at http www cosit info containing links to the conference web sites and proceedings a history and program of the series an impact study interviews with participants and pictures The proceedings of this sixth conference provide ample evidence that COSIT is healthy and maturing while retaining its youth Out of the 61 submissions the program committee selected 26 papers for presentation in discussions based on at least three double blind reviews and one or more meta review from PC members for each paper Classical COSIT themes such as spatial reasoning about distances and directions regions and shapes or vagueness are being f ther re ned topics like way nding and landmarks are boosted by new synergies betweencognitiveandcomputationalapproaches andthestudyofontologiesfor space and time a subject since the rst COSIT is gaining more depth   *The Perceptual Structure of Three-Dimensional Art* Paul M.W. Hackett,2016-12-26 This book deals with philosophical aspects regarding the perception of spatial relationships in two and three dimensional art It provides a structural understanding of how art is perceived within the space created by the artwork and employs a mapping sentence and partial order mereology to model perceptual structure It reviews the writing of philosophers such as Paul Crowther and art theorists such as Krauss to establish the need for this research The ontological model established Paul Crowther is used to guide an interactive account of his ontology in the interpretations of the perceptual process of three dimensional abstract art to allow the formulation of a more comprehensive philosophical account The book uniquely combines structuralist and post structuralist approaches to artistic perception and understanding with a conceptual structure from facet theory which is clarified with the help of a mapping sentence and partial order mereology   **Universal Ontology of Geographic Space: Semantic Enrichment for Spatial Data** Podobnikar, Tomaž,Čeh, Marjan,2012-03-31 A universal approach to the ontology of geographic space has already been and is going to be a comprehensive task for establishing more effective spatial models The concept of a universal spatial ontology should be independent of location culture and time It should be fundamental and universal in the same way that the number p defines the ratio between the diameter and the circumference of a circle The term universal therefore means all embracing and for general propose Universal Ontology of Geographic Space Semantic Enrichment for Spatial Data aims to escalate the current scope of research to support the development of semantically interoperable systems of geographic space This reference will aid university lecturers and professors students researchers developers of spatial applications   **Spatial Information Theory: Foundations of Geographic Information Science**

Daniel R. Montello,2003-06-30 The 5th International Conference on Spatial Information Theory COSIT 2001 took place at the Inn at Morro Bay California USA September 19 23 2001 COSIT grew out of a series of workshops NATO Advanced Study Institutes NSF Specialist Meetings during the 1990s concerned with theoretical and applied aspects of representing large scale space particularly geographic or environmental space this history is elaborated in the prefaces of previous COSIT proceedings These are spaces in which and on which human action takes place and which are represented and processed in digital geographic information systems In these early meetings the need for well founded theories of spatial information representation and processing was identified particularly theories based on cognition and on computation This concern for theory provided an early foundation for the newly emerging field of geographic information science COSIT is not backed by any particular scientific society but is organized as an independent enterprise The conference series was established in 1993 as an interdisciplinary biennial European conference on the representation and processing of large scale spatial information after a successful international conference on the topic had been organized by Andrew Frank et al in Pisa in 1992 frequently referred to as COSIT 0 After two successful European COSIT conferences with strong North American participation COSIT 93 Island of Elba Italy COSIT 95 Semmering Austria COSIT 97 moved across the pond to the United States and was held in the Laurel Highlands Pennsylvania   The Structure of Objects Kathrin Koslicki,2008-04-17 Kathrin Koslicki offers an analysis of ordinary materials objects those material objects to which we take ourselves to be committed in ordinary scientifically informed discourse She focuses particularly on the question of how the parts of such objects are related to the wholes which they compose Many philosophers today find themselves in the grip of an exceedingly deflationary conception of what it means to be an object According to this conception any plurality of objects no matter how disparate or gerrymandered itself composes an object even if the objects in question fail to exhibit interesting similarities internal unity cohesion or causl interaction amongst each other This commitment to initially counterintuitive objects follows from the belief that no principled set of criteria is available by means of which to distinguish intuitively gerrymandered objects from commonsensical ones the project of this book is to persuade the reader that systematic principles can be found by means of which composition can be restricted and hence that we need not embrace this deflationary approach to the question of what it means to be an object To this end a more full blooded neo Aristotelian account of parthood and composition is developed according to which objects are structured wholes it is integral to the existence and identity of an object on this conception that its parts exhibit a certain manner of arrangement This structure based conception of parthood and composition is explored in detail along with some of its historical precursors as well as some of its contemporary competitors

Qualitative Spatio-Temporal Representation and Reasoning: Trends and Future Directions Hazarika, Shyamanta M.,2012-05-31 Space and time are inextricably linked Reasoning about space often involves reasoning about change in spatial configurations Qualitative spatial information theory encompasses spatial as well as temporal representation and

reasoning Qualitative Spatio Temporal Representation and Reasoning Trends and Future Directions is a contribution to the emerging discipline of qualitative spatial information theory within artificial intelligence This collection of research covers both theory and application centric research and provides a comprehensive perspective on the emerging area of qualitative spatio temporal representation and reasoning This revolutionary new field is increasingly becoming a core issue within mobile computing GIS spatial information systems databases computer vision as well as knowledge discovery and data mining **Computational Phenotypes** Sergio Balari,Guillermo Lorenzo González,2013 This is a book about language as a species typical trait of humans It argues that language is not so exceptional after all as according to the authors it is just the human version of a rather common and conservative organic system that they refer to as the Central Computational Complex

Formal Ontology in Information Systems B. Brodaric,F. Neuhaus,2020-11-13 FOIS is the flagship conference of the International Association for Ontology and its Applications a non profit organization which promotes interdisciplinary research and international collaboration at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general This volume presents the 17 papers accepted for the 11th Formal Ontology in Information Systems conference FOIS 2020 These papers cover a broad range of topics and are organized into 5 groups Foundations is dedicated to the general ontological decisions providing a foundation for any ontology both from a philosophical perspective and with an emphasis on applications Social Entities is dedicated to the ontological analysis and formalization of various social entities including secrets legal theories decisions kinship and cultural heritage The papers in Intentionality and Embodiment analyze aspects of an agent s intentions beliefs and desires as well as the embodiment of functional relations The section on Parts and Wholes is dedicated to mereology as well as the mereological analysis of certain types of entities e g pluralities information entities and computer programs Lastly the papers in Methods are about ontology evaluation and use Altogether the papers reflect traditional FOIS themes with perhaps a greater emphasis on social and agent aspects and will be of interest to all those whose work involves ontology and its applications Parts of a Whole Lucas Champollion,2017-03-09 This book uses mathematical models of language to explain why there are certain gaps in language things that we might expect to be able to say but can t For instance why can we say I ran for five minutes but not I ran all the way to the store for five minutes Why is five pounds of books acceptable but five pounds of book not acceptable What prevents us from saying sixty degrees of water to express the temperature of the water in a swimming pool when sixty inches of water can express its depth And why can we not say all the ants in my kitchen are numerous The constraints on these constructions involve concepts that are generally studied separately aspect plural and mass reference measurement and distributivity In this book Lucas Champollion provides a unified perspective on these domains connects them formally within the framework of

algebraic semantics and mereology and uses this connection to transfer insights across unrelated bodies of literature and formulate a single constraint that explains each of the judgments above **The Categorization of Spatial Entities in Language and Cognition** Michel Aurnague,Maya Hickmann,Laure Vieu,2007-01-01 Despite a growing interest for space in language most research has focused on spatial markers specifying the static or dynamic relationships among entities verbs prepositions postpositions case markings Little attention has been paid to the very properties of spatial entities their status in linguistic descriptions and their implications for spatial cognition and its development in children This topic is at the center of this book that opens a new field by sketching some major theoretical and methodological directions for future research on spatial entities Brought together linguistic descriptions of spatial systems formal accounts of linguistic data and experimental findings from psycholinguistic studies all couched within a wide cross linguistic perspective Such an interdisciplinary approach provides a rich overview of the many questions that remain unanswered in relation to spatial entities while also throwing a new light on previous research focusing on related topics concerning space and or the relation between language and cognition *Nelson Goodman* Daniel Cohnitz,Marcus Rossberg,2014-12-18 Nelson Goodman s acceptance and critique of certain methods and tenets of positivism his defence of nominalism and phenomenalism his formulation of a new riddle of induction his work on notational systems and his analysis of the arts place him at the forefront of the history and development of American philosophy in the twentieth century However outside of America Goodman has been a rather neglected figure In this first book length introduction to his work Cohnitz and Rossberg assess Goodman s lasting contribution to philosophy and show that although some of his views may be now considered unfashionable or unorthodox there is much in Goodman s work that is of significance today The book begins with the grue paradox which exemplifies Goodman s way of dealing with philosophical problems After this the unifying features of Goodman s philosophy are presented his constructivism conventionalism and relativism followed by an discussion of his central work The Structure of Appearance and its significance in the analytic tradition The following chapters present the technical apparatus that underlies his philosophy his mereology and semiotics which provides the background for discussion of Goodman s aesthetics The final chapter examines in greater depth the presuppositions underlying his philosophy *Formal Ontology in Information Systems* Achille C. Varzi,Laure Vieu,2004 Just as ontology developed over the centuries as part of philosophy so in recent years ontology has become intertwined with the development of the information sciences Researchers in such areas as artificial intelligence formal and computational linguistics biomedical informatics conceptual modeling knowledge engineering and information retrieval have come to realize that a solid foundation for their research calls for serious work in ontology understood as a general theory of the types of entities and relations that make up their respective domains of inquiry In all these areas attention has started to focus on the content of information rather than on just the formats and languages in terms of which information is represented A clear example of this development is provided by the many

initiatives growing up around the project of the Semantic Web And as the need for integrating research in these different fields arises so does the realization that strong principles for building well founded ontologies might provide significant advantages over ad hoc case based solutions The tools of Formal Ontology address precisely these needs but a real effort is required in order to apply such philosophical tools to the domain of Information Systems Reciprocally research in the information science raises specific ontological questions which call for further philosophical investigations **Mereology and the Sciences** Claudio Calosi,Pierluigi Graziani,2014-06-02 This volume is the first systematic and thorough attempt to investigate the relation and the possible applications of mereology to contemporary science It gathers contributions from leading scholars in the field and covers a wide range of scientific theories and practices such as physics mathematics chemistry biology computer science and engineering Throughout the volume a variety of foundational issues are investigated both from the formal and the empirical point of view The first section looks at the topic as it applies to physics The section addresses questions of persistence and composition within quantum and relativistic physics and concludes by scrutinizing the possibility to capture continuity of motion as described by our best physical theories within gunky space times The second part tackles mathematics and shows how to provide a foundation for point free geometry of space switching to fuzzy logic The relation between mereological sums and set theoretic suprema is investigated and issues about different mereological perspectives such as classical and natural Mereology are thoroughly discussed The third section in the volume looks at natural science Several questions from biology medicine and chemistry are investigated From the perspective of biology there is an attempt to provide axioms for inferring statements about part hood between two biological entities from statements about their spatial relation From the perspective of chemistry it is argued that classical mereological frameworks are not adequate to capture the practices of chemistry in that they consider neither temporal nor modal parameters The final part introduces computer science and engineering A new formal mereological framework in which an indeterminate relation of part hood is taken as a primitive notion is constructed and then applied to a wide variety of disciplines from robotics to knowledge engineering A formal framework for discretemereotopology and its applications is developed and finally the importance of mereology for the relatively new science of domain engineering is also discussed **Geospatial Semantics and the Semantic Web** Naveen Ashish,Amit P. Sheth,2011-06-11 The availability of geographic and geospatial information and services especially on the open Web has become abundant in the last several years with the proliferation of online maps geo coding services geospatial Web services and geospatially enabled applications The need for geospatial reasoning has significantly increased in many everyday applications including personal digital assistants Web search applications local aware mobile services specialized systems for emergency response medical triaging intelligence analysis and more Geospatial Semantics and the Semantic Web Foundations Algorithms and Applications an edited volume contributed by world class leaders in this field provides recent research in the theme of geospatial semantics This edited volume presents new

information systems applications that have potential for high impact and commercialization Also special effort was made by the contributors to focus on geospatial ontology development related standards geospatial ontology alignment and integration and algorithmic techniques for geospatial semantics Case studies and examples will be provided throughout this book as well as possibilities for future research

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