Realistic space

Sensory perception

Spatial features

Representation

Feedback

Where?

There!

Symbol system

Strengthen spatial cognition

Cognitive space

Descriptive space

Spatial Cognition

D Kirk

Spatial Cognition:

   Spatial Cognition Christian Freksa,Christopher Habel,Karl F. Wender,2003-05-20 Research on spatial cognition is a rapidly evolving interdisciplinary enterprise for the study of spatial representations and cognitive spatial processes be they real or abstract human or machine Spatial cognition brings together a variety of search methodologies empirical investigations on human and animal orientation and navigation studies of communicating spatial knowledge using language and graphical or other pictorial means the development of formal models for r resenting and processing spatial knowledge and computer implementations to solve spatial problems to simulate human or animal orientation and navigation behavior or to reproduce spatial communication patterns These approaches can interact in interesting and useful ways Results from empirical studies call for formal explanations both of the underlying memory structures and of the processes operating upon them we can develop and plement operational computer models obeying the relationships between objects and events described by the formal models we can empirically test the computer models under a variety of conditions and we can compare the results to the sults from the human or animal experiments A disagreement between these results can provide useful indications towards the re nement of the models   *Human Spatial Cognition and Experience* Toru Ishikawa,2020-06-15 This book offers students an introduction to human spatial cognition and experience and is designed for graduate and advanced undergraduate students who are interested in the study of maps in the head and the psychology of space We live in space and space surrounds us We interact with space all the time consciously or unconsciously and make decisions and actions based on our perceptions of that space Have you ever wondered how some people navigate perfectly using maps in their heads while other people get lost even with a physical map What do you mean when you say you have a poor sense of direction How do we know where we are How do we use and represent information about space This book clarifies that our knowledge and feelings emerge as a consequence of our interactions with the surrounding space and show that the knowledge and feelings direct guide or limit our spatial behavior and experience Space matters or more specifically space we perceive matters Research into spatial cognition and experience asking fundamental questions about how and why space and spatiality matters to humans has thus attracted attention It is no coincidence that the 2014 Nobel Prize in Physiology or Medicine was awarded for research into a positioning system in the brain or inner GPS and that spatial information and technology are recognized as an important social infrastructure in recent years This is the first book aimed at graduate and advanced undergraduate students pursuing this fascinating area of research The content introduces the reader to the field of spatial cognition and experience with a series of chapters covering theoretical empirical and practical issues including cognitive maps spatial orientation spatial ability and thinking geospatial information navigation assistance and environmental aesthetics   **Spatial Cognition III** Christian Freksa,Wilfried Brauer,Christopher Habel,Karl F. Wender,2003-06-23 This third volume documents the results achieved within a priority program on spatial cognition funded

by the German Science Foundation DFG The 23 revised full papers presented went through two rounds of reviewing and improvement and reflect the increased interdisciplinary cooperation in the area The papers are organized in topical sections on routes and navigation human memory and learning spatial representation and spatial reasoning **Spatial Cognition** Joan Stiles,Mark Kritchevsky,Ursula Bellugi,1988 This book offers a unique opportunity to share the combined efforts of scientists from varied disciplines including cognitive and developmental psychology neuropsychology behavioral neurology and neurobiology in the process of interacting and exchanging ideas *Applied Spatial Cognition* Gary L. Allen,2020-07-24 Applied Spatial Cognition illustrates the vital link between research and application in spatial cognition With an impressive vista ranging from applied research to applications of cognitive technology this volume presents the work of individuals from a wide range of disciplines and research areas including psychologists geographers information scientists computer scientists cognitive scientists engineers and architects Chapters throughout the book are a testimony to the importance of basic and applied research regarding human spatial cognition and behavior in the many facets of daily life The contents are arranged into three sections the first of which deals with a variety of spatial problems in real world settings The second section focuses on spatial cognition in specific populations The final part is concerned principally with applications of spatial cognitive research and the development of cognitive technology Relevant to a number of remarkably diverse groups Applied Spatial Cognition will be of considerable interest to researchers and professionals in industrial organizational psychology human factors research and cognitive science Spatial Cognition ,2003 **Spatial Cognition VIII** Cyrill Stachniss,Kerstin Schill,David Uttal,2012-08-27 This book constitutes the proceedings of the 8th International Conference on Spatial Cognition SC 2012 held in Kloster Seeon Germany in August September 2012 The 31 papers presented in this volume were carefully reviewed and selected from 59 submissions The conference deals with spatial cognition biological inspired systems spatial learning communication robotics and perception Spatial Cognition II Christian Freksa,Wilfried Brauer,Christopher Habel,Karl F. Wender,2000-05-24 This book constitutes the second volume documenting the results achieved within a priority program on spatial cognition by the German Science Foundation DFG The 28 revised full papers presented were carefully reviewed and reflect the increased interdisciplinary cooperation in the area The book is divided into sections on maps and diagrams motion and spatial reference spatial relations and spatial inference navigation in real and virtual spaces and spatial memory *Space and Spatial Cognition* Michel Denis,2018 Foreword Space as object of knowledge and object of practice Philosophical approaches to space Geographic space Space related practices Spatial behavior and spatial representations Classifications Frames of reference and cognitive maps Measurements Brain and sensorimotor systems functions and dysfunctions The spatial brain Weaknesses Spatial challenges Space and language Spatial terminology Spatial descriptions Routes and route directions Computation and technologies Space and computer sciences Assistance Virtual spaces Epilogue Spatial thinking References Index of names Index of terms **Spatial**

Cognition Seán Ó Nualláin,2000-01-01 Spatial Cognition brings together psychology computer science linguistics and geography discussing how people think about space our internal cognitive maps and spatial perception and how we communicate about space for instance giving route directions or using spatial metaphors The technological applications adding dynamism to the area include computer interfaces educational software multimedia and in car navigation systems On the experimental level themes as varied as gender differences in orientation and of course wholly unrelated the role of the hippocampus in rodent navigation are described Much detailed analysis and computational modeling of the structure of short term memory STM is discussed The papers were presented at the 1998 annual meeting of the Cognitive Science Society of Ireland Mind III Series B   Spatial Cognition R. Lloyd,2013-04-17 10 2 Summary of Ideas 256 10 2 1 Spatial Behavior As Rules For Decision Making 258 10 2 2 Cognitive Mapping 258 10 2 3 Storing Information 260 10 2 4 Searching 260 10 2 5 Learning 261 10 2 6 Judging Similarity 261 10 2 7 Neural Geographic Information Science NGIS 262 REFERENCES 265 INDEX 279 ACKNOWLEDGEMENTS 287 x LIST OF TABLES Table 8 1 The types of similarity comparisons created for the experiment to determine the effect ofx as a first or second common or distinctive feature Lloyd Rostkowska Covington and Steinke 1996 Table 9 1 Data used to compute the gravity model using regression and a neural network Data for all variables are scaled so that the highest value equals 0 9 and the lowest value equals 0 1 Table 9 2 Class means for 11 socio economic and life cycle variables for the Black Integrated and White classes Table 9 3 Weights for neuron at row 5 and column 1 that learned the blue horizontal rectangle map symbol LIST OF FIGURES Figure 1 1 Spatial cognition is a research area of interest for both geography and psychology Both disciplines are interested in fundamental ideas related to encoding processes internal representations and decoding processes Figure 1 2 The place names on this map of New Orleans depict the propositions used for navigation by local residents A similar map appeared in theJune 30 1991 edition of The Times Picayune   *Spatial Cognition, Spatial Perception* Francine L. Dolins,Robert W. Mitchell,2010-03-25 An analysis of human and non human animals spatial cognitive perceptual and behavioural processes through mapping internal and external spatial knowledge   Imagery and Spatial Cognition Tomaso Vecchi,Gabriella Bottini,2006-01-01 The relationships between perception and imagery imagery and spatial processes memory and action These are the main themes of this text The interest of experimental psychology and cognitive neuroscience on imagery and spatial cognition is remarkably increased in the last decades Different areas of research contribute to the clarification of the multiple cognitive processes subserving spatial perception and exploration and to the definition of the neurophysiological mechanisms underpinning these cognitive functions The aim of this book is to provide the reader post graduate students as well as experts with a complete overview of this field of research It illustrates the way how brain behaviour and cognition interact in normal and pathological subjects in perceiving representing and exploring space Series B   **Spatial Cognition V** Thomas Barkowsky,Markus Knauff,Gérard Ligozat,Daniel R. Montello,2007-11-16 This book constitutes the refereed proceedings of the International Conference on

Spatial Cognition Spatial Cognition 2006 It covers spatial reasoning human robot interaction visuo spatial reasoning and spatial dynamics spatial concepts human memory mental reasoning and assistance spatial concepts human memory and mental reasoning navigation wayfinding and route instructions as well as linguistic and social issues in spatial knowledge processing *Spatial Cognition VI. Learning, Reasoning, and Talking about Space* Christian Freksa,Nora S. Newcombe,Peter Gärdenfors,Stefan Wölfl,2008-09-10 This book constitutes the refereed proceedings of the International Conference on Spatial Cognition Spatial Cognition 2008 held in Freiburg Germany in September 2008 The 27 revised full papers presented together with 3 invited lectures were carefully reviewed and selected from 54 submissions The papers are organized in topical sections on spatial orientation spatial navigation spatial learning maps and modalities spatial communication spatial language similarity and abstraction concepts and reference frames as well as spatial modeling and spatial reasoning Collective Spatial Cognition Kevin Curtin,Daniel R. Montello,2023-10-02 This book integrates the science of spatial cognition and the science of team cognition to explore the social psychological and behavioral phenomenon of spatial cognition as it occurs in human collectives such as dyads and work teams It represents the culmination of a process of outlining and defining a growing field of research termed Collective Spatial Cognition It engages contributions from an international and multi disciplinary community of scholars who have collaborated to provide a foundation for knowledge discovery regarding how groups of people of varying size acquire information and solve problems involving spatiality as a key component leading to action that incorporates the spatial information and problem solving collectively achieved The collectives under study can be as small as dyads teams of two to large teams of teams who are working alongside each other to complete a mutual goal The book lays the foundation for multi and interdisciplinary work regarding Collective Spatial Cognition in the years to come and this book documents that foundation This book will be of interest to those researching spatial behavioural cognitive and information sciences in the fields of human geography sociology psychology and computer science **Spatial Cognition** D. R. Olson,E. Bialystok,2014-03-18 First published in 1983 This is a volume in a series on Child Psychology This book offers a set of theoretical ideas which make up a quite general theory of the mental representation of space which accounts both for much of spatial perception but also much of spatial thought The system is general and economical and can be readily applied to novel problems as we illustrated in regard to Piaget s water level problem and Koler s letter recognition problem **From Geometry to Behavior** Hanspeter A. Mallot,2024-01-23 An overview of the mechanisms and evolution of spatial cognition integrating evidence from psychology neuroscience cognitive science and computational geometry Understanding how we deal with space requires input from many fields including ethology neuroscience psychology cognitive science linguistics geography and spatial information theory In From Geometry to Behavior cognitive neuroscientist Hanspeter A Mallot provides an overview of the basic mechanisms of spatial behavior in animals and humans showing how they combine to support higher level performance Mallot explores the biological

mechanisms of dealing with space from the perception of visual space to the constructions of large space representations that is the cognitive map The volume is also relevant to the epistemology of spatial knowledge in the philosophy of mind Mallot aims to establish spatial cognition as a scientific field in its own right His general approach is psychophysical in that it focuses on quantitative descriptions of behavioral performance and their real world determinants thus connecting to the work of theorists in computational neuroscience robotics and computational geometry After an overview of scientific thinking about space Mallot covers spatial behavior and its underlying mechanisms in the order of increasing memory involvement He describes the cognitive processes that underlie advanced spatial behaviors such as directed search wayfinding spatial planning spatial reasoning object building and manipulation and communication about space These mechanisms are part of the larger cognitive apparatus that also serves visual and object cognition understanding events actions and causality and social cognition which includes language Of all of these cognitive domains spatial cognition most likely occurred first in the course of evolution and is the most widespread throughout the animal kingdom **Spatial Cognition** Christian Freksa,Christopher Habel,Karl F. Wender,1998-05-25 Research on spatial cognition is a rapidly evolving interdisciplinary enterprise for the study of spatial representations and cognitive spatial processes be they real or abstract human or machine Spatial cognition brings together a variety of search methodologies empirical investigations on human and animal orientation and navigation studies of communicating spatial knowledge using language and graphical or other pictorial means the development of formal models for r resenting and processing spatial knowledge and computer implementations to solve spatial problems to simulate human or animal orientation and navigation behavior or to reproduce spatial communication patterns These approaches can interact in interesting and useful ways Results from empirical studies call for formal explanations both of the underlying memory structures and of the processes operating upon them we can develop and plement operational computer models obeying the relationships between objects and events described by the formal models we can empirically test the computer models under a variety of conditions and we can compare the results to the sults from the human or animal experiments A disagreement between these results can provide useful indications towards the re nement of the models Spatial Cognition IV, Reasoning, Action, Interaction C. Freksa,2005-03 This book constitutes the thoroughly refereed postproceedings of the International Conference on Spatial Cognition 2004 held in Fauenchiemsee Germany in October 2004 The 27 revised full papers presented were carefully reviewed and selected from 50 submissions The papers are organized in topical sections on route directions wayfinding and spatial behaviour description of space prepositions and reference meta models diagrams and maps spatial temporal representation and reasoning and robot mapping and piloting

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