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Human Spatial Cognition and Experience Handbook of Spatial Cognition Space and Spatial Cognition Spatial Cognition III Why People Get Lost Spatial Cognition Spatial Cognition From Mental Imagery to Spatial Cognition and Language The Categorization of Spatial Entities in Language and Cognition Imagery and Spatial Cognition Mind and Maze Applied Spatial Cognition From Mental Imagery to Spatial Cognition and Language Spatial Cognition Spatial Vagueness, Uncertainty, Granularity Neuropsychology of Space Spatial Cognition, Spatial Perception Geographical Design Geographical Design Geographical Design Spatial Cognition Spatial Cognition II Spatial Cognition Spatial Cognition and Reasoning Cognitive and Linguistic Aspects of Geographic Space Spatial Cognition Language, Cognition and Space Spatial Cognition V Human Spatial Memory Handbook of Spatial Cognition The Development of Spatial Cognition Spatial Cognition VII Spatial Cognition VI. Learning, Reasoning, and Talking about Space The Spatial Foundations of Cognition and Language Spatial Cognition XII Animal Spatial Cognition Spatial Cognition Spatial Cognition VIII The Emerging Spatial Mind Spatial Cognition and Geographic Information Systems

Geographical Design Oct 09 2021 With GIS technologies ranging from Google Maps and Google Earth to the use of smart phones and in-car navigation systems, spatial knowledge is often acquired and communicated through geographic information technologies. This monograph describes the interplay between spatial cognition research and use of spatial interfaces. It begins by reviewing what is known about how humans process spatial concepts and then moves on to discuss how interfaces can be improved to take advantage of those capabilities. Special attention is given to a variety of innovative geographical platforms that provide users with an intuitive understanding and support the further acquisition of spatial knowledge. The monograph

concludes with a discussion of the number of outstanding issues, including the changing nature of maps as the primary spatial interface, concerns about privacy for spatial information, and a look at the future of user-centered spatial information systems. Table of Contents: Introduction / Spatial Cognition / Technologies / Cognitive Interfaces for Wayfinding / Open Issues / For More Information

Spatial Cognition VII Aug 27 2020 This is the seventh volume of a series of books on fundamental research in spatial cognition. As with past volumes, the research presented here spans a broad range of research traditions, for spatial cognition concerns not just the basic spatial behavior of biological and artificial agents, but also the reasoning processes that allow spatial planning across broad spatial and temporal scales. Spatial information is critical for coordinated action and thus agents interacting with objects and moving among objects must be able to perceive spatial relations, learn about these relations, and act on them, or store the information for later use, either by themselves or communicated to others. Research on this problem has included both psychology, which works to understand how humans and other mobile organisms solve these problems, and computer science, which considers the nature of the information available in the world and a formal consideration of how these problems might be solved. Research on human spatial cognition also involves the application of representations and processes that may have evolved to handle object and location information to reasoning about higher-order problems, such as displaying non-spatial information in diagrams. Thus, work in s- tial cognition extends beyond psychology and computer science into many disciplines including geography and education. The Spatial Cognition conference offers one of the few forums for consideration of the issues spanning this broad academic range.

Geographical Design Sep 08 2021 With spatial technologies ranging from mapping software to the use of location-based services, spatial knowledge is often acquired and communicated through geographic information technologies. This book describes the interplay between spatial cognition research and use of spatial interfaces. It begins by reviewing what is known about how humans process spatial concepts and then moves on to discuss how interfaces can be improved to take advantage of those capabilities by disambiguating cognitive aspects, conceptual aspects, computational aspects, and communications aspects. Special attention is given to a variety of innovative geographical platforms that provide users with an intuitive understanding and support the further acquisition of spatial knowledge. Alternatives to shortest-path algorithms to explore more scenic routes, as well as individual user differences that can emerge from previous experiences with virtual spaces, are also discussed. The book concludes with a discussion of the number of outstanding issues, including the changing nature of maps as the primary spatial interface, concerns about privacy for spatial information, and looks at the future of user-centered spatial information systems.

Language, Cognition and Space Feb 01 2021 Spatial perception and cognition is fundamental to human abilities to navigate through space, identify and locate objects, and track entities in motion. Moreover, research findings in the last couple of decades reveal that many of the mechanisms humans employ to achieve this are largely innate, providing abilities to store cognitive maps for locating themselves and others, locations, directions and routes. In this, humans are like many other species. However, unlike other species, humans can employ language in order to represent space. The human linguistic ability combined with the human ability for spatial representation apparently results in rich, creative and sometimes surprising extensions of representations for three-dimensional physical space. The present volume brings together over 20 articles from leading scholars who investigate the relationship between spatial cognition and spatial language. The volume is fully representative of the state of the art in terms of language and space research, and points to new directions in terms of findings, theory, and practice.
The Categorization of Spatial Entities in Language and Cognition Aug 19 2022 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.
Human Spatial Cognition and Experience Apr 27 2023 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.

Mind and Maze Jun 17 2022 Taking the reader on a journey from the crib to the city, this book examines the development of how we know where we are in space and our appreciation of spatial relationships. Gender differences, brain architecture and map use are explored in this interdiscplinary study.

Spatial Cognition and Reasoning May 04 2021 This paper summarizes several cognitive studies of spatial knowledge processing. The studies investigated the types of representation of spatial knowledge, the techniques individuals use to acquire knowledge from maps, and the differences between the knowledge acquired from maps and navigational experience. Three major conclusions emerge from these studies: (1) People encode several types of spatial knowledge in memory, including images of physical objects, memory of actions and procedures, symbolic abstractions of the environment (e.g., names, distances), and spatial maps; (2) Different types of spatial knowledge are optimal for different tasks (e.g., orienting oneself, estimating distances, reconstructing spatial relations among distant objects); and (3) Individuals vary in their strategies and abilities for acquiring spatial knowledge. (Author).

Spatial Cognition and Geographic Information Systems Dec 19 2019

Spatial Cognition VIII Feb 19 2020 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 VI. Learning, Reasoning, and Talking about Space Jul 26 2020 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.
Spatial Cognition Jun 05 2021 First published in 1983. Routledge is an imprint of Taylor & Francis, an informa company.
Spatial Cognition Mar 14 2022
Spatial Cognition II Jul 06 2021 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.
Spatial Cognition V Dec 31 2020 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.
Human Spatial Memory Nov 29 2020 The chapters in Human Spatial Memory: Remembering Where present a fascinating picture of an everyday aspect of mental life that is as intriguing to people outside of academia as it is to scientists studying human cognition and behavior. The questions are as old as the study of mind itself: How do we remember where objects are located? How do we remember where we are in relation to other places? What is the origin and developmental course of spatial memory? What neural structures are involved in remembering where? How do we come to understand scaled-down versions of places as symbolic representations of actual places? Although the questions are old, some of the answers-in-progress are new, thanks to some innovative theorizing, solid experimental work, and revealing applications of new technologies, such as virtual environments and brain imaging techniques. This volume includes a variety of theoretical, empirical, and methodological advances that invite readers to make their own novel connections between theory and research. Scholars who study spatial cognition can benefit from examining the latest from well-established experts, as well as milestone contributions from early-career researchers. This combination provides the reader with a sense of past, present, and future in terms of spatial memory research. Just as important, however, is the value of the volume as a touchstone resource for researchers who study perception, memory, or cognition but who are not concerned primarily with the spatial domain. All readers may find the fact that this volume violates the trend toward an ever-narrowing specialization refreshing. Chapters from cognitive psychologists are alongside chapters by developmentalists and neuroscientists; results from field studies are just pages away from those based on fMRI during observation of virtual displays. Thus, the book invites integrative examination across disciplines, research areas,

and methodological approaches.
Spatial Cognition III Jan 24 2023 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 Mar 02 2021 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 the June 30, 1991, edition of The Times-Picayune.
Imagery and Spatial Cognition Jul 18 2022 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).
Space and Spatial Cognition Feb 25 2023 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 Oct 21 2022 Looking at the ways humans perceive, interpret, remember, and interact with events occurring in space, this book focuses on two aspects of spatial cognition: How does spatial cognition develop? What is the relation between spatial cognition and the brain? 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. Based on a conference held at the Neuroscience Conference Center of the Salk Institute for Biological Studies, this book explores current scientific trends seeking a biological basis for understanding the relationships among brain, mind, and behavior.
Spatial Cognition, Spatial Perception Dec 11 2021 An analysis of human and non-human animals' spatial cognitive, perceptual, and behavioural processes through mapping internal and external spatial knowledge.
Neuropsychology of Space Jan 12 2022 The Neuropsychology of Space: Spatial Functions of the Human Brain summarizes recent research findings related to understanding the brain mechanisms involved in spatial reasoning, factors that adversely impact spatial reasoning, and the clinical implications of rehabilitating people who have experienced trauma affecting spatial reasoning. This book will appeal to cognitive psychologists, neuropsychologists, and clinical psychologists. Spatial information processing is central to many aspects of cognitive psychology including perception, attention, motor action, memory, reasoning, and communication. Any behavioural task involves mentally computing spaces, mechanics, and timing and many mental tasks may require thinking about these aspects as well (e.g. imaging the route to a destination). Discusses how spatial processing is central to perception, attention, memory, reasoning, and communication Identifies the brain architecture and processes involved in spatial processing Describes theories of spatial processing and how empirical evidence support or refute theories Includes case studies of neuropsychological disorders to better illustrate theoretical concepts Provides an applied perspective of how spatial perception acts in the real world Contains rehabilitation possibilities for spatial function loss
Spatial Cognition Aug 07 2021

The Development of Spatial Cognition Sep 27 2020 First published in 1985. The present book represents a statement of the state of the art in a very important aspect of spatial cognition, its development.

From Mental Imagery to Spatial Cognition and Language Apr 15 2022 Reviewing the state-of-the-art research in the field of imagery, visuo-spatial memory, spatial representation and language, with special emphasis on their interactions, the volume addresses the issues in depth, presenting new evidence through contributions from both behavioural and neuroimaging studies.

The Spatial Foundations of Cognition and Language Jun 24 2020 This book presents recent research on the role of space as a mechanism in language use and learning. Experimental psychologists, computer scientists, robotocists, linguists, and researchers in child language consider the nature and applications of this research and its implications for understanding the processes involved in language acquisition.

Why People Get Lost Dec 23 2022 At some point in our lives, most of us have been lost. How does this happen? What are the limits of our ability to find our way? Do we have an innate sense of direction? 'How people get lost' reviews the psychology and neuroscience of navigation. It starts with a history of studies looking at how organisms solve mazes. It then reviews contemporary studies of spatial cognition, and the wayfinding abilities of adults and children. It then considers how specific parts of the brain provide a cognitive map and a neural compass. This book also considers the neurology of spatial disorientation, and the tendency of patients with Alzheimer's disease to lose their way. Within the book, the author considers that, perhaps we get lost simply because our brain's compass becomes misoriented. This book is written for anyone with an interest in navigation and the brain. It assumes no specialised knowledge of neuroscience, but covers recent advances in our understanding of how the brain represents space.

Spatial Cognition Nov 22 2022 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.
Handbook of Spatial Cognition Mar 26 2023 This book, which provides a detailed interdisciplinary overview of spatial cognition from neurological to sociocultural levels, is an accessible resource for advanced undergraduates and graduate students, as well as researchers at all levels who seek to understand our perceptions of the world around us.
Spatial Vagueness, Uncertainty, Granularity Feb 13 2022 This special issue collects enhanced and extended versions of papers that were presented at the Symposium on Spatial Vagueness, Uncertainty, and Granularity held in October 2001. The contributions examine fundamental problems in the analysis of spatial vagueness and uncertainty, and the editors hope this selection stimulates further investigation in this growing subfield of the theory of spatial information.
Animal Spatial Cognition Apr 22 2020 The “Cognitive Map” (Tolman, 1948) is a key notion in spatial processing studies. It refers to high level spatial representations. Although widely used, this term remains ambiguous. The aim of this book is two-fold: (1) to examine the most noteworthy studies (in laboratory settings) which have contributed during the last five decades to a better understanding of animal spatial representations; (2) to provide some hints for future research. Spatial tests designed by psychologists are useful tools for understanding the brain substrates of spatial memory. Conversely, brain treatments allow us to analyse the complex psychological mechanisms underlying spatial orientation. Within this interdisciplinary context, it is extremely important to take stock of a notion used (and sometimes misused) in cognitive neurosciences. Request Inspection Copy
The Emerging Spatial Mind Jan 20 2020 How does the spatial mind develop? In this book, Jodie Plumert and John Spencer bring together the leading researchers from the field of spatial cognitive development to examine how the spatial mind emerges from its humble origins in infancy and becomes its mature, flexible, and skilled adult form. The work presented sheds light on how the emerging spatial mind is fostered and shaped over time by our experiences of thinking about and interacting in the space around us. Each chapter presents cutting-edge research and theory that addresses the two pivotal questions of what changes in the spatial mind, and how these changes come about. The authors provide both conceptual and formal theoretical accounts of developmental process at multiple levels of analysis--genes, neurons, behaviors, social interactions--creating a contemporary overview of the general mechanisms of cognitive change. Commentary chapters show how the developmental advances discussed in these accounts fit into our understanding of not only spatial cognitive development, but also spatial cognition more generally.
Geographical Design Nov 10 2021 With GIS technologies ranging from Google Maps and Google Earth to the use of smart phones and in-car navigation systems, spatial knowledge is often acquired and communicated through geographic information

technologies. This monograph describes the interplay between spatial cognition research and use of spatial interfaces. It begins by reviewing what is known about how humans process spatial concepts and then moves on to discuss how interfaces can be improved to take advantage to those capabilities. Special attention is given to a variety of innovative geographical platforms that provide users with an intuitive understanding and support the further acquisition of spatial knowledge. The monograph concludes with a discussion of the number of outstanding issues, including the changing nature of maps as the primary spatial interface, concerns about privacy for spatial information, and a look at the future of user-centered spatial information systems. Table of Contents: Introduction / Spatial Cognition / Technologies / Cognitive Interfaces for Wayfinding / Open Issues / For More Information

Applied Spatial Cognition May 16 2022 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.

From Mental Imagery to Spatial Cognition and Language Sep 20 2022

Cognitive and Linguistic Aspects of Geographic Space Apr 03 2021 20 years ago, from July 8 to 20, 1990, 60 researchers gathered for two weeks at Castillo-Palacio Magalia in Las Navas del Marques (Avila Province, Spain) to discuss cognitive and linguistic aspects of geographic space. This meeting was the start of successful research on cognitive issues in geographic information science, produced an edited book (D. M. Mark and A. U. Frank, Eds., 1991, Cognitive and Linguistic Aspects of Geographic Space. NATO ASI Series D: Behavioural and Social Sciences 63. Kluwer, Dordrecht/Boston/London), and led to a biannual conference (COSIT), a refereed journal (Spatial Cognition and Computation), and a substantial and still growing research community. It appeared worthwhile to assess the achievements and to reconsider the research challenges twenty years later. What has changed in the age of computational ontologies and cyber-infrastructures? Consider that 1990 the web was only about to emerge and the very first laptops had just appeared! The 2010 meeting brought together many of the original

participants, but was also open to others, and invited contributions from all who are researching these topics. Early-career scientists, engineers, and humanists working at the intersection of cognitive science and geographic information science were invited to help with the re-assessment of research needs and approaches. The meeting was very successful and compared the research agenda laid out in the 1990 book with achievements over the past twenty years and then turned to the future: What are the challenges today? What are worthwhile goals for basic research? What can be achieved in the next 20 years? What are the lessons learned? This edited book will assess the current state of the field through chapters by participants in the 1990 and 2010 meetings and will also document an interdisciplinary research agenda for the future.

Spatial Cognition XII May 24 2020 This book constitutes the thoroughly refereed proceedings of the 12th International Conference, Spatial Cognition 2020, held in Riga, Latvia, in September 2020. The physical event was postponed to 2021 due to the COVID-19 pandemic. The 19 full papers and 6 short papers presented in this book were carefully selected and reviewed from 50 submissions. They focus on the following topics: spatial representation and cognitive maps; navigation and wayfinding; spatial representation in language, logic, and narrative; and spatial abilities and learning.

Handbook of Spatial Cognition Oct 29 2020 Spatial cognition is a branch of cognitive psychology that studies how people acquire and use knowledge about their environment to determine where they are, how to obtain resources, and how to find their way home. Researchers from a wide range of disciplines, including neuroscience, cognition, and sociology, have discovered a great deal about how humans and other animals sense, interpret, behave in, and communicate about space. This book addresses some of the most important dimensions of spatial cognition, such as neuroscience, perception, memory, and language. It provides a broad yet detailed overview that is useful not only to academics, practitioners, and advanced students of psychology, but also to city planners, architects, software designers, sociologists, and anyone else who seeks to understand how we perceive, interpret, and interact with the world around us.

Spatial Cognition Mar 22 2020 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.

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