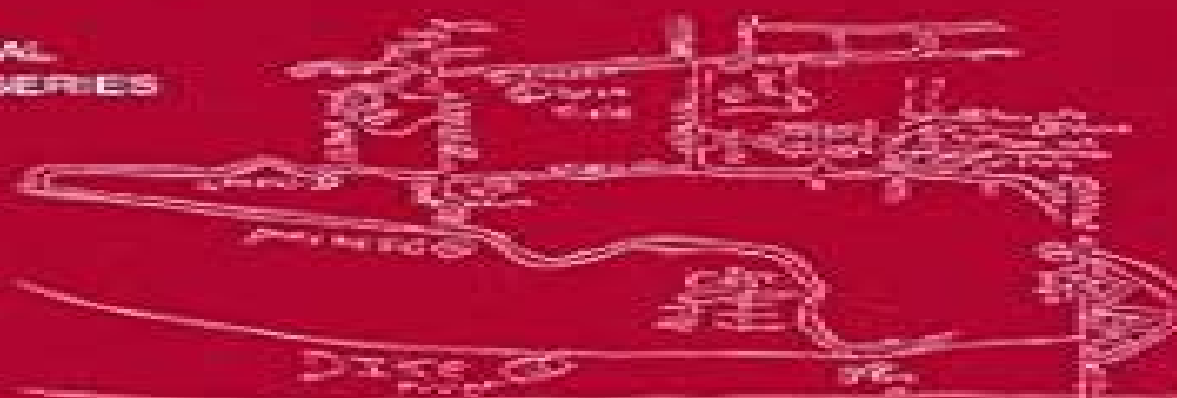


Spatial Representation and Behavior Across the Life Span

Theory and Application

30. 12. 2019

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Irving E. Sigel



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Spatial Representation and Behavior Across the Life Span Lynn S. Liben, Arthur H. Patterson, Nora Newcombe, 1981

Representations of Space and Time Donna J. Peuquet, 2002-06-20 Recent advances in information technology have enabled scientists to generate unprecedented amounts of earth related data with tremendous potential for dealing with pressing social economic and environmental issues Yet the volume and heterogeneity of available data clearly overwhelm traditional analytical approaches as well as the human capacity to derive patterns and useful insights This book examines how geospatial knowledge can be analyzed and represented in a manner that not only is accurate and coherent but also makes intuitive sense to the end user Integrating concepts and approaches from geography computer science cognitive psychology and philosophy Donna J Peuquet explores the processes by which people acquire represent and utilize spatiotemporal knowledge Arguing that the human user and the computer must be viewed as interrelated components of a single system she provides principles and recommendations for improving the design of geographic information systems GIS and other geospatial modeling tools An ideal student text or professional reference this book fills a crucial need in geographic information science

Handbook of Spatial Research Paradigms and Methodologies: Spatial cognition in the child and adult Nigel Foreman, Raphael Gillett, 1997 Part of a two volume handbook reviewing the major paradigms used in each of the contributors research areas of spatial cognition

Maps and Mapping in Children's Literature Nina Goga, Bettina Kümmerling-Meibauer, 2017-08-15 Maps and Mapping in Children's Literature is the first comprehensive study that investigates the representation of maps in children's books as well as the impact of mapping on the depiction of landscapes seascapes and cityscapes in children's literature The chapters in this volume pursue a comparative approach as they represent a wide spectrum of diverse genres and national children's literatures by examining a wealth of children's books from Canada Denmark Germany Italy Norway Russia the United Kingdom and the USA The theoretical and methodological approaches range from literary studies developmental psychology maps and geography literacy ecocriticism historical contextualization with both new historicist and political historical leanings and intermediality to materialist cartographies cultural studies island studies and genre studies By this this volume aims at embedding children's literature in a broader field of literary and cultural studies thus situating children's literature research within a general context of literary theory

The Development of Spatial Cognition Robert Cohen, 2013-08-21 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

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 Noplace Like Home Amy C. Singleton, 1997-01-01 Explores the way that four major works of Russian literature Gogol's *Dead Souls* Goncharov's *Oblomov* Zamyatin's *We* and Bulgakov's *The Master and Margarita* define a cultural self for the Russian people Focusing on the deep cultural currents that pull Russian society in contradictory ways *Noplace Like Home* also explores the writer's struggle to overcome these tensions through the creation of a literary utopia *Visions of Aesthetics, the Environment & Development* Roger M. Downs, Lynn S. Liben, 2013-03-07 Derived from a conference honoring the legacy of Joachim Wohlwill this volume is designed to reflect as many facets of the late scholar's wide ranging work as possible As its title indicates the book identifies three broad areas in which Wohlwill made significant contributions art and aesthetics human environment interaction and concepts of development In each of these areas Wohlwill made seminal contributions helping to shape maintain and even change the direction of research and thought Specific topics addressed here by his colleagues students and contemporaries include the shape of development the intermingling of perception and cognition the balance between innate and acquired processes the relation between environmental and ecological psychology the development of the ability to use external representations of the physical environment and the way world views underpin beliefs about the nature of development **Development of Mental Representation** Irving E. Sigel, 2013-06-17 There is a general and extensive literature in the development of representational thought and symbolic processes because of its centrality in human evolution However the umbrella of science and its method does not necessarily lead to a coherent conceptual model or agreements among scholars These basic differences among various disciplines have led to the creation of new and exciting realms of research This book considers how representational or symbolic thought develops for children's use in a wide array of these circumstances The Oxford Handbook of Environmental and Conservation Psychology Susan D. Clayton, 2012-10-18 First handbook to integrate

environmental psychology and conservation psychology

Handbook Of Spatial Research Paradigms And

Methodologies Nigel Foreman, Raphael Gillett, 2013-01-11 Spatial cognition is a broad field of enquiry emerging from a wide range of disciplines and incorporating a wide variety of paradigms that have been employed with human and animal subjects This volume is part of a two volume handbook reviewing the major paradigms used in each of the contributors research areas This volume considers the issues of neurophysiological aspects of spatial cognition the assessment of cognitive spatial deficits arising from neural damage in humans and animals and the observation of spatial behaviours in animals in their natural habitats This handbook should be of interest to new and old students alike The student new to spatial research can be brought up to speed with a particular range of techniques made aware of the background and pitfalls of particular approaches and directed toward useful sources For seasoned researchers the handbook provides a rapid scan of the available tools that they might wish to consider as alternatives when wishing to answer a particular spatial research problem

Behavioral Problems in Geography Revisited Kevin R Cox, Reginald Golledge, 2015-12-22 This collection of papers originally published in 1981 reviews and evaluates past and possible future advances in a field of central importance to human geography behavioral geography The book includes critical studies which show how the approach has contributed substantially to work within four areas of major application in behavioral geography urban travel behavior environmental cognition residential mobility and spatial diffusion The final section of the book focuses on the shortcomings of the behavioral approach and considers the alternative modes of analysis available

Children's Searching H. M. Wellman, 2013-05-13 Published in 1985 Children's Searching is a valuable contribution to the field of Developmental Psychology **Piaget Today (Psychology Revivals)** Barbel Inhelder, Denys de Caprona, Angela Cornu-Wells, 2013-10-01 Originally published in 1987 the contributors bring their different orientations to the study of child development and genetic epistemology to show the continuing value of Piaget's theory and its fruitfulness in providing insights which permit the advancement of science This volume contains the proceedings of the VIIth Advanced Course of the Fondation Archives Jean Piaget held at the University of Geneva in 1985 The lectures and discussions included in this volume will help the reader to understand Piaget in the context of twentieth century science and philosophy and to consider the present and future of the theory as it was seen at the time of original publication

Virtual Reality Jae-Jin Kim, 2011-01-08 Technological advancement in graphics and other human motion tracking hardware has promoted pushing virtual reality closer to reality and thus usage of virtual reality has been extended to various fields The most typical fields for the application of virtual reality are medicine and engineering The reviews in this book describe the latest virtual reality related knowledge in these two fields such as advanced human computer interaction and virtual reality technologies evaluation tools for cognition and behavior medical and surgical treatment neuroscience and neuro rehabilitation assistant tools for overcoming mental illnesses educational and industrial uses In addition the considerations for virtual worlds in human society are discussed This book will serve as a state of the art

resource for researchers who are interested in developing a beneficial technology for human society

The Emerging Spatial Mind Jodie M. Plumert, John P. Spencer, 2007-04-12 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

Geospatial Technologies and Homeland Security Daniel Sui, 2008-05-25 Homeland security and context In the Geographical Dimensions of Terrorism GDOT Cutter et al 2003 the first book after 9 11 to address homeland security and geography we developed several thematic research agendas and explored intersections between geographic research and the importance of context both geographical and political in relationship to the concepts of terrorism and security It is good to see that a great deal of new thought and research continues to flow from that initial research agenda as illustrated by many of the papers of this new book entitled Geospatial Technologies and Homeland Security Research Frontiers and Future Challenges Context is relevant not only to understanding homeland security issues broadly but also to the conduct of research on geospatial technologies It is impossible to understand the implications of a homeland security strategy let alone hope to make predictions conduct meaningful modeling and research or assess the value and dangers of geospatial technologies without consideration of overarching political social economic and geographic contexts within which these questions are posed

Wayfinding Behavior Reginald G. Golledge, 1999 The metaphor of a cognitive map has attracted interest since the 1940s Researchers from many fields have explored how humans process and use spatial information why they make errors or not This text brings together contributors from diverse fields to explore the

Behavior and Environment T. Garling, R.G. Golledge, 1993-01-28 Active researchers in the areas of geography and psychology have contributed to this book Both fields are capable of increasing our scientific knowledge of how human behavior is interfaced with the molar physical environment Such knowledge is essential for the solution of many of today's most urgent environmental problems Failure to constrain use of scarce resources pollution due to human activities creation of technological hazards and deteriorating urban quality due to vandalism and crime are all well known examples The influence of psychology in geographical research has long been appreciated but it is only recently that psychologists have recognized they have something to learn from geography In identifying the importance of two way interdisciplinary

communication a psychologist and a geographer have been invited to each write a chapter in this book on a designated topic so that close comparisons can be drawn as to how the two disciplines approach the same difficulties Since the disciplines are to some extent complementary it is hoped that this close collaboration will have synergistic effects on the attempts of both to find solutions to environmental problems through an increased understanding of the many behavior environment interfaces

The Wiley-Blackwell Handbook of Childhood Cognitive Development Usha Goswami, 2013-11-11 This definitive volume is the result of collaboration by top scholars in the field of children's cognition New edition offers an up to date overview of all the major areas of importance in the field and includes new data from cognitive neuroscience and new chapters on social cognitive development and language Provides state of the art summaries of current research by international specialists in different areas of cognitive development Spans aspects of cognitive development from infancy to the onset of adolescence Includes chapters on symbolic reasoning pretend play spatial development abnormal cognitive development and current theoretical perspectives

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