
Conceptual Spaces

Spatial Cognition VI. Learning, Reasoning, and Talking about Space

Milieus of Creativity

Concepts and Categories

Conceptual Spaces: Elaborations and Applications

Text Worlds

The Impact of Artists on Contemporary Urban Development in Europe

New Approaches to Cinematic Space

Dimensions of Creativity

The Logic of Software. A Tasting Menu of Formal Methods

Everyday Utopias

Metaphor across Time and Conceptual Space

Extended Conceptual Metaphor Theory

Code/space

Privacy in Public Space

Spatial Information Theory

Conceptual Spaces

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Design Computing and Cognition'22

The Spaces of Mental Capacity Law

Human Factors in Project Management

Conceptual Joining

Concepts in Action

Everyday Utopias

Conceptual Spaces

Inductive Logic on Conceptual Spaces

Conceptual History in the European Space
New Spaces in Physics: Volume 2
Conceptual Spaces
The Construal of Spatial Meaning
Applications of Conceptual Spaces
A Framework for K-12 Science Education
The Big Book of Concepts
Making Space
Categories in Markets
Sacred Scripture / Sacred Space
New Frontiers in Artificial Intelligence
New Spaces in Mathematics: Volume 1
The Geometry of Meaning
The Construal of Spatial Meaning

Conceptual Spaces

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MARTINEZ POPE

Spatial Cognition VI. Learning, Reasoning, and Talking about Space Springer Science & Business Media

Focuses on how market categories shape processes of production and consumption and how these activities in turn shape category systems. This volume explores topics such as: how new categories emerge, become enacted and gain consensus, how categories are used by market agents, and how category systems change over time.

Milieus of Creativity MIT Press

This edited book focuses on concepts and their applications using the theory of conceptual spaces, one of today's most central

tracks of cognitive science discourse. It features 15 papers based on topics presented at the Conceptual Spaces @ Work 2016 conference. The contributors interweave both theory and applications in their papers. Among the first mentioned are studies on metatheories, logical and systemic implications of the theory, as well as relations between concepts and language. Examples of the latter include explanatory models of paradigm shifts and evolution in science as well as dilemmas and issues of health, ethics, and education. The theory of conceptual spaces overcomes many translational issues between academic theoretization and practical applications. The paradigm is mainly associated with structural explanations, such as categorization and meronymy. However, the community has also been relating it to relations, functions, and systems. The book presents work

that provides a geometric model for the representation of human conceptual knowledge that bridges the symbolic and the sub-conceptual levels of representation. The model has already proven to have a broad range of applicability beyond cognitive science and even across a number of disciplines related to concepts and representation.

Concepts and Categories Berghahn Books

After the development of manifolds and algebraic varieties in the previous century, mathematicians and physicists have continued to advance concepts of space. This book and its companion explore various new notions of space, including both formal and conceptual points of view, as presented by leading experts at the New Spaces in Mathematics and Physics workshop held at the Institut Henri Poincaré in 2015. The chapters in this volume cover a broad range of topics in mathematics, including diffeologies, synthetic differential geometry, microlocal analysis, topos theory, infinity-groupoids, homotopy type theory, category-theoretic methods in geometry, stacks, derived geometry, and noncommutative geometry. It is addressed primarily to mathematicians and mathematical physicists, but also to historians and philosophers of these disciplines.

Conceptual Spaces: Elaborations and Applications Emerald Group Publishing

A novel cognitive theory of semantics that proposes that the meanings of words can be described in terms of geometric structures. In *The Geometry of Meaning*, Peter Gärdenfors proposes a theory of semantics that bridges cognitive science and linguistics and shows how theories of cognitive processes, in particular concept formation, can be exploited in a general

semantic model. He argues that our minds organize the information involved in communicative acts in a format that can be modeled in geometric or topological terms—in what he terms conceptual spaces, extending the theory he presented in an earlier book by that name. Many semantic theories consider the meanings of words as relatively stable and independent of the communicative context. Gärdenfors focuses instead on how various forms of communication establish a system of meanings that becomes shared between interlocutors. He argues that these “meetings of mind” depend on the underlying geometric structures, and that these structures facilitate language learning. Turning to lexical semantics, Gärdenfors argues that a unified theory of word meaning can be developed by using conceptual spaces. He shows that the meaning of different word classes can be given a cognitive grounding, and offers semantic analyses of nouns, adjectives, verbs, and prepositions. He also presents models of how the meanings of words are composed to form new meanings and of the basic semantic role of sentences. Finally, he considers the future implications of his theory for robot semantics and the Semantic Web.

Text Worlds Duke University Press Books

Concepts embody our knowledge of the kinds of things there are in the world. Tying our past experiences to our present interactions with the environment, they enable us to recognize and understand new objects and events. Concepts are also relevant to understanding domains such as social situations, personality types, and even artistic styles. Yet like other phenomenologically simple cognitive processes such as walking or understanding speech, concept formation and use are

maddeningly complex. Research since the 1970s and the decline of the "classical view" of concepts have greatly illuminated the psychology of concepts. But persistent theoretical disputes have sometimes obscured this progress. The Big Book of Concepts goes beyond those disputes to reveal the advances that have been made, focusing on the major empirical discoveries. By reviewing and evaluating research on diverse topics such as category learning, word meaning, conceptual development in infants and children, and the basic level of categorization, the book develops a much broader range of criteria than is usual for evaluating theories of concepts.

The Impact of Artists on Contemporary Urban Development in Europe Birkhäuser

This book explores the conceptual spaces and socio-legal context which mental capacity laws inhabit. It will be seen that these norms are created and reproduced through the binaries that pervade mental capacity laws in liberal legal jurisdictions- such as capacity/incapacity; autonomy/paternalism; empowerment/protection; carer/cared-for; disabled/non-disabled; public/private. Whilst on one level the book demonstrates the pervasive reach of laws questioning individuals mental capacity, within and beyond the medical context which it is most commonly associated with, at a deeper and perhaps more important level it challenges the underlying norms and assumptions underpinning the very idea of mental capacity, and reflects outwards on the transformative potential of these realisations for other areas of law. In doing so, whilst the book offers lessons for mental capacity law scholarship in terms of reform efforts at both domestic and international levels, it also

offers ways to develop our understandings of a range of linked legal, policy and theoretical concepts. In so doing, it offers new critical vantage points for both legal critique and conceptual change beyond mental capacity law. The book will be of interest to researchers in mental capacity law, disability law and socio-legal studies as well as critical geographers and disability studies scholars.

New Approaches to Cinematic Space Cambridge University Press

This book provides an up-to-date, critical review of theoretical concepts connecting artists and urban development. It focuses on the multidimensionality of potential and actually observed interactions between artists and cities and their impacts on urban space, its form, functions and perceptions. Departing from the viewpoint that a more nuanced geography of artists is still needed to fully conceptualise the diversity of roles artistic creatives play in urban transformations, the book presents contributions with a common denominator of distinguishing artists as a unique professional and social group. The essays focus on the complexity of the artists' spatial preferences and analyse a myriad of expressions of artists' presence in urban centres in different geographic, political, economic, social, and spatial contexts drawing on experiences from 16 cities across Europe. The book presents several case studies ranging from Spain to Russia and from Scandinavia to Slovenia, and offers new pathways into understanding the implications of artists' residence and activities in contemporary cities. Apart from presenting less obvious expressions of artists' involvement in urban transformations such as their participation in urban planning or grass root urban movements, the volume explores the

ambivalence of artists' interactions with cities. Particular chapters test several divergent narratives of artistic creatives as inspirers and instigators of urban changes, pioneers of gentrification, contesters and resisters of neoliberal urban policies or mere indicators of transformations inspired by other actors, instrumentalized by public and private stakeholders.

Dimensions of Creativity MIT Press

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and

space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

The Logic of Software. A Tasting Menu of Formal Methods

John Benjamins Publishing

First established in 1993 with a conference in Elba, Italy, COSIT (the International Conference on Spatial Information Theory) is widely acknowledged as one of the most important conferences for the field of spatial information theory. This conference series brings together researchers from a wide range of disciplines for intensive scientific changes centered on spatial information theory. COSIT submissions typically address research questions drawn from cognitive, perceptual, and environmental psychology, geography, spatial information science, computer science, artificial intelligence, cognitive science, engineering, cognitive anthropology, linguistics, ontology, architecture, planning, and environmental design. Some of the topical areas include, for example, the cognitive structure of spatial knowledge; events and processes in geographic space; incomplete or imprecise

spatial knowledge; languages of spatial relations; navigation by organisms and robots; ontology of space; communication of spatial information; and the social and cultural organization of space to name a few. This volume contains the papers presented at the 9th International Conference on Spatial Information Theory, COSIT 2009, held in Aber Wrac'h, France, September 21–25, 2009. For COSIT 2009, 70 full paper submissions were received. These papers were carefully reviewed by an international Program Committee based on relevance to the conference, intellectual quality, scientific significance, novelty, relation to previously published literature, and clarity of presentation. After reviewing was completed, 30 papers were selected for presentation at the conference and appear in this volume. This number of papers reflects the high quality of submissions to COSIT this year.

Everyday Utopias MIT Press

Why do people like books, music, or movies that adhere consistently to genre conventions? Why is it hard for politicians to take positions that cross ideological boundaries? Why do we have dramatically different expectations of companies that are categorized as social media platforms as opposed to news media sites? The answers to these questions require an understanding of how people use basic concepts in their everyday lives to give meaning to objects, other people, and social situations and actions. In this book, a team of sociologists presents a groundbreaking model of concepts and categorization that can guide sociological and cultural analysis of a wide variety of social situations. Drawing on research in various fields, including cognitive science, computational linguistics, and psychology, the

book develops an innovative view of concepts. It argues that concepts have meanings that are probabilistic rather than sharp, occupying fuzzy, overlapping positions in a “conceptual space.” Measurements of distances in this space reveal our mental representations of categories. Using this model, important yet commonplace phenomena such as our routine buying decisions can be quantified in terms of the cognitive distance between concepts. *Concepts and Categories* provides an essential set of formal theoretical tools and illustrates their application using an eclectic set of methodologies, from micro-level controlled experiments to macro-level language processing. It illuminates how explicit attention to concepts and categories can give us a new understanding of everyday situations and interactions.

Metaphor across Time and Conceptual Space Springer

This volume provides an overview of applications of conceptual spaces theory, beginning with an introduction to the modeling tool that unifies the chapters. The first section explores issues of linguistic semantics, including speakers’ negotiation of meaning. Further sections address computational and ontological aspects of constructing conceptual spaces, while the final section looks at philosophical applications. Domains include artificial intelligence and robotics, epistemology and philosophy of science, lexical semantics and pragmatics, agent-based simulation, perspectivism, framing, contrast, sensory modalities, and music, among others. This collection provides evidence of the wide application range of this theory of knowledge representation. The papers in this volume derive from international experts across different fields including philosophy, cognitive science, linguistics, robotics, computer science and geography. Each contributor has

successfully applied conceptual spaces theory as a modeling tool in their respective areas of expertise. Graduates as well as researchers in the areas of epistemology, linguistics, geometric knowledge representation, and the mathematical modeling of cognitive processes should find this book of particular interest.

Extended Conceptual Metaphor Theory MIT Press

Argues for an interactionist approach to spatial development that incorporates and integrates essential insights of the Piaget, Nativist, and Vygotskian approaches.

Code/space Duke University Press

This Festschrift, dedicated to Reiner Hähnle on the occasion of his 60th birthday, contains papers written by many of his closest collaborators. After positions at Karlsruhe Institute of Technology and Chalmers University of Technology, since 2011 Reiner has been the chaired professor of Software Engineering at Technische Universität Darmstadt, where his team focuses on the formal verification of object-oriented software, the formal modeling and specification of highly adaptive software systems, and formal modeling and analysis in domains such as biological systems and railroad operations. His work is characterized by achievements in theory and in practical implementations, significant collaborations include the KeY project and the development of the ABS language. He has served as chair and editor of important related academic conferences, and coauthored almost 200 academic publications. The contributions in this volume reflect Reiner's main research focus: formal methods, in particular applied to software verification.

Privacy in Public Space MIT Press

In recent years, scientific research and translation medicine have

placed increased emphasis on computational methodology and data curation across many disciplines, both to advance underlying science and to instantiate precision-medicine protocols in the lab and in clinical practice. The nexus of concerns related to oncology, cardiology, and virology (SARS-CoV-2) presents a fortuitous context within which to examine the theory and practice of biomedical data curation. *Innovative Data Integration and Conceptual Space Modeling for COVID, Cancer, and Cardiac Care* argues that a well-rounded approach to data modeling should optimally embrace multiple perspectives inasmuch as data-modeling is neither a purely formal nor a purely conceptual discipline, but rather a hybrid of both. On the one hand, data models are designed for use by computer software components, and are, consequently, constrained by the mechanistic demands of software environments; data modeling strategies must accept the formal rigors imposed by unambiguous data-sharing and query-evaluation logic. In particular, data models are not well-suited for software-level deployment if such models do not translate seamlessly to clear strategies for querying data and ensuring data integrity as information is moved across multiple points. On the other hand, data modeling is, likewise, constrained by human conceptual tendencies, because the information which is managed by databases and data networks is ultimately intended to be visualized/utilized by humans as the end-user. Thus, at the intersection of both formal and humanistic methodology, data modeling takes on elements of both logico-mathematical frameworks (e.g., type systems and graph theory) and conceptual/philosophical paradigms (e.g., linguistics and

cognitive science). The authors embrace this two-sided aspect of data models by seeking non-reductionistic points of convergence between formal and humanistic/conceptual viewpoints, and by leveraging biomedical contexts (viz., COVID, Cancer, and Cardiac Care) so as to provide motivating examples and case-studies in this volume. Provides an analysis of how conceptual spaces and related cognitive linguistic approaches can inspire programming and query-processing models Outlines the vital role that data modeling/curation has played in significant medical breakthroughs Presents readers with an overview of how information-management approaches intersect with precision medicine, providing case studies of data-modeling in concrete scientific practice Explores applications of image analysis and computer vision in the context of precision medicine Examines the role of technology in scientific publishing, replication studies, and dataset curation

Spatial Information Theory Springer Science & Business Media
Thirteen papers on different subjects, focussing on writings and inscriptions in medieval art, explore the faculty of writing to create and determine spaces and to generate the sacred by the display of holy scripture. The subjects range from book illumination over wall painting, mosaics, sculpture, and church interiors to inscriptions on portals and façades.

Conceptual Spaces Springer

After the development of manifolds and algebraic varieties in the previous century, mathematicians and physicists have continued to advance concepts of space. This book and its companion explore various new notions of space, including both formal and conceptual points of view, as presented by leading experts at the

New Spaces in Mathematics and Physics workshop held at the Institut Henri Poincaré in 2015. This volume covers a broad range of topics in mathematical physics, including noncommutative geometry, supergeometry, derived symplectic geometry, higher geometric quantization, intuitionistic quantum logic, problems with the continuum description of spacetime, twistor theory, loop quantum gravity, and geometry in string theory. It is addressed primarily to mathematical physicists and mathematicians, but also to historians and philosophers of these disciplines.

[Innovative Data Integration and Conceptual Space Modeling for COVID, Cancer, and Cardiac Care](#) Oxford University Press

Contemporary linguistic forms are partially the product of their historical antecedents, and the same is true for cognitive conceptualization. The book presents the results of several diachronic corpus studies of conceptual metaphor in a longitudinal and empirical “mixed methods” design, employing both quantitative and qualitative analysis measures; the study design was informed by usage-based theory. The goal was to investigate the interaction over time between conceptualization and cultural models in historical English-speaking society. The main study of two linguistic metaphors of anger spans five centuries (A.D. 1500 to 1990). The results show that conceptualization and cultural models—understood as non-autonomous, encyclopedic knowledge—work together to determine both the meaning and use of a linguistic metaphor. In addition, historically a wide variety of emotion concepts formed a complex cognitive array called the Domain Matrix of emotion. The implications for conceptual metaphor theory, research methodology, and future study are discussed in detail.

Innovative Data Integration and Conceptual Space Modeling for COVID, Cancer, and Cardiac Care MIT Press

This book constitutes the thoroughly refereed post-conference proceedings of the JSAI-isAI 2012 Workshops LENLS, JURISIN, ALSIP, MiMI, which took place on November/December 2012, respectively, in Miyazaki, Japan. The 17 contributions in this volume were carefully reviewed and selected from 42 submissions. They are an excellent selection of papers that are representative of topics of AI research both in Japan and in other parts of the world. LENLS (Logic and Engineering of Natural Language Semantics) is an annual international workshop on formal semantics and pragmatics; its topics are the formal and theoretical aspects of natural language. JURISIN (Juris-Informatics) deals with juris-informatics. This workshop brings together people from various backgrounds such as law, social science, information and intelligent technology, logic and philosophy, including the conventional "AI and law" area. MiMI (Multimodality in Multispace Interaction) focuses on how multispace is managed in socially, temporally, and sequentially complex environments.

Design Computing and Cognition'22 Routledge

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.

The Spaces of Mental Capacity Law Cambridge University Press
Dieses Buch untersucht experimentelle Ansätze für Entwurf und Umsetzung von Holzstrukturen in der Architektur und präsentiert zugleich die Resultate eines künstlerischen Forschungsprojekts. Durch den Einsatz digitaler Werkzeuge wird die Anatomie des Holzes als entwurfsbestimmendes Prinzip für Raumgefüge genutzt, das Potenzial traditioneller Handwerkskunst erforscht und daraus eine materialorientierte Architekturpraxis abgeleitet. Strukturen werden hier nicht für eine bestimmte Nutzung entworfen, sondern eröffnen aufgrund ihrer spezifischen räumlichen und geometrischen Eigenschaften unterschiedliche Möglichkeiten der Bespielung. Die Dokumentation gibt Einblick in einen ergebnisoffenen Forschungsprozess. Gastbeiträge reflektieren die zugrunde liegenden Konzepte und damit die zukünftige Relevanz des Baustoffs Holz.