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Cognitive Dynamics Human Information Processing Invariances in Human Information Processing Perspectives on Abstract Concepts The Twenty-First Century Mechanistic Theory of Human Cognition Human Cognitive Neuropsychology Democratization of Expertise Multilingual Cognition and Language Use Cognitive Technologies and the Pragmatics of Cognition Human Cognition Cognition and Safety Language Learning, Discourse and Cognition Human Cognitive Neuropsychology (Classic Edition) Conceptualizations of Time The Bounds of Cognition Grammar and Cognition Cognitive Informatics for Revealing Human Cognition: Knowledge Manipulations in Natural Intelligence The Structure of Time Ten Lectures on Cognition, Mental Representation, and the Self Human Cognition Cognitive Psychology Bi-Directionality in the Cognitive Sciences A Mind for Structure Human-Centred Web Adaptation and Personalization Cognitive Processing in the Right Hemisphere Embodied Cognition Human Cognitive Neuropsychology Methods in Cognitive Linguistics Linguistic Attractors Cognitive Linguistics Current Perspectives in Cognitive Processing by Domesticated Animals Cognitive Systems and the Extended Mind Language Diversity and Cognitive Representations Time and Human Cognition Embodiment via Body Parts Principles of Synthetic Intelligence Introduction to Cognitive Science Time Representations in the Perspective of Human Creativity Expertise and Technology Memory and Attention

Cognitive Dynamics 2014-03-05 recent work in cognitive science much of it placed in opposition to a computational view of the mind has argued that the concept of representation and theories based on that concept are not sufficient to explain the details of cognitive processing these attacks on representation have focused on the importance of context sensitivity in cognitive processing on the range of individual differences in performance and on the relationship between minds and the bodies and environments in which they exist in each case models based on traditional assumptions about representation have been assumed to be too rigid to account for the effects of these factors on cognitive processing in place of a representational view of mind other formalisms and methodologies such as nonlinear differential equations or dynamical systems and situated robotics have been proposed as better explanatory tools for understanding cognition this book is based on the notion that while new tools and approaches for understanding cognition are valuable representational approaches do not need to be abandoned in the course of constructing new models and explanations rather models that incorporate representation are quite compatible with the kinds of complex situations being modeled with the new methods this volume illustrates the power of this explicitly representational approach labeled cognitive dynamics in original essays by prominent researchers in cognitive science each chapter explores some aspect of the dynamics of cognitive processing while still retaining representations as the centerpiece of the explanations of the key phenomena these chapters serve as an existence proof that representation is not incompatible with the dynamics of cognitive processing the book is divided into sections on foundational issues about the use of representation in cognitive science the dynamics of low level cognitive processes such as visual and auditory perception and simple lexical priming and the dynamics of higher cognitive processes including categorization analogy and decision making

Human Information Processing 2021-10-14 originally published in 1974 this volume presents seven detailed views of human information processing at the time while no single volume can do justice to the breadth of the area it was hoped that the present selections reflected both the content and methodological approaches currently used by experimental psychologists concerned with the issues and problems of human information processing the organization of the book is simple proceeding from the human performance end of the continuum an overview of which is given in the first chapter successive chapters are progressively more concerned with human cognition and the last chapter gives an overview of human cognition the intervening chapters are devoted to more specific topics and yield a detailed portrait of the models findings and methodology of human information processing

Invariances in Human Information Processing 2018-02-28 invariances in human information processing examines and identifies processing universals and how they are implemented in elementary judgemental processes this edited collection offers evidence that these universals can be extracted and identified from observing law like principles in perception cognition and action addressing memory operations development and conceptual learning this book considers basic and complex meso and makro stages of information processing chapter authors provide theoretical accounts of cognitive processing that may offer tools for identification of functional components in brain activity in cognitive neuroscience

Perspectives on Abstract Concepts 2019-06-15 human language is the most powerful communication system that evolution has produced within this system we can talk about things we can physically see such as cats and tables but also about more abstract entities such as theories and feelings but how are these abstract concepts grounded in human cognition and represented in the mind how are they constructed in language and how are

they used in natural communication settings this book addresses these questions through a collection of studies that relate to various theoretical frameworks ranging from conceptual metaphor theory to words as social tools contributors investigate how abstract concepts are grounded in the mind represented in language and used in verbal discourse this richness is matched by a range of methods used throughout the volume from neuroimaging to computational modeling and from behavioral experiments to corpus analyses

The Twenty-First Century Mechanistic Theory of Human Cognition 2020-11-30 this book presents a theoretical critical appraisal of the mechanistic theory of human cognition mthc which is one of the most popular major theories in the contemporary field of cognitive science it analyses and evaluates whether mthc provides a unifying account of human cognition and its explanation the book presents a systematic investigation of the internal and external consistency of the theory as well as a systematic comparison with other contemporary major theories in the field in this sense it provides a fresh look at more recent major theoretical debates in this area of scientific research and a rigorous analysis of one of its most central major theories rigorous theoretical work is integrated with objective consideration of relevant empirical evidence making the discussions robust and clear as a result the book shows that mthc provides a significant theoretical contribution for the field of cognitive science the content is useful for those interested in theoretical and empirical issues concerning major theories in the contemporary field of cognitive science

Human Cognitive Neuropsychology 2014 cognitive neuropsychology seeks to understand impairments of specific cognitive functions in relation to a model of normal cognitive processing the conclusions drawn from the study of abnormal processes are in turn used in the development and testing of theories of normal cognition first published in 1988 this seminal book represented an attempt to synthesize and systematize progress in the study of cognitive neuropsychology and therefore provides an important snapshot of the field at the time in addition to reviewing different forms of impairment and discussing their implications for theories of normal function this book also examines the empirical and theoretical foundations of the subject including the use of single case studies and the assumptions that must be made about the mind and brain this classic edition marks 25 years in print and includes a brand new introduction written by the authors ellis and young the augmented edition of human cognitive neuropsychology published in 1997 is also still available this classic edition will be important reading for students of cognitive psychology cognitive neuroscience and neuropsychology

Democratization of Expertise 2020-10-26 we create technology enabling us to do things never before possible and it ultimately changes the way we live work play and interact with each other throughout human history the democratization of technology making a technology available to the masses has brought about sweeping cultural social political and societal changes in the last half century the democratization of computers information the internet and social media have revolutionized and transformed our lives we now stand at the beginning of a new era sure to bring about waves of new revolutions the cognitive systems era until now humans have done all of the thinking however our lives are about to be infused with artificial entities capable of performing high level cognitive processing previously possible only in the human mind systems capable of this kind of synthetic cognition will achieve and surpass the level of human experts in almost every field of endeavor far from replacing humans these cognitive systems will be our collaborators teachers confidants colleagues and companions the future will belong to those who can better partner with these cognitive systems made available to the average person via the internet handheld devices and through ordinary objects all around us expertise will become democratized everything will

change when anyone has access to expertise in any field and new things will be possible the democratization of expertise is the foundation on which our society s revolutions will be built over the next half century this book discusses societal and cultural revolutions throughout history brought about by the adoption of new technology and gives brief histories of human cognitive augmentation and artificial intelligence in the coming cognitive systems era humans by collaboratively partnering with cognitive systems will together achieve expert level performance synthetic expertise with humans performing some of the cognitive processing and cognitive systems performing some as the capabilities of cognitive systems improve over time the balance of thinking will shift from being mostly human to mostly artificial this book introduces the levels of cognitive augmentation to describe this shift drawing from previous research in cognitive systems and intelligent agent theory the knowledge stores required for expertise are identified in a knowledge level description of expertise this book introduces a new abstract level called the expertise level to describe the skills needed for expertise combining the knowledge level and expertise level descriptions this book introduces the model of expertise this book demonstrates use of the model of expertise by presenting several synthetic expert architectures a synthetic teacher synthia a synthetic friend therapist sy a synthetic elderly companion lois a synthetic research companion synclair and an automated scientific hypothesis explorer ashe this book is intended for anyone interested in the fields of cognitive systems cognitive computing cognitive augmentation or artificial intelligence or the impact of technologies from these fields on society anyone doing research and development in the area of cognitive systems or artificial intelligence will find this book particularly useful

Multilingual Cognition and Language Use 2014-06-15 this volume provides a multifaceted view of certain key themes in multilingualism research today and offers future directions for this research area in the context of the multilingual development of individuals and societies the selection of studied languages is eclectic e g amondawa cantonese bulgarian dene dutch eipo frisian german mandarin chinese māori russian spanish and yukatek among others they are typologically diverse and they are contrasted from a variety of perspectives such as cognitive development aging acquisition grammatical and lexical processing and memory this collection also illustrates novel insights into the linguistic relativity debate that multilingual studies can offer such as new and revealing perspectives on some well known topics e g colour categorisation or language transfer the critical and comprehensive discussions of theoretical and methodological considerations presented in this volume are fundamental for numerous current future empirical and interdisciplinary studies of linguistic diversity linguistic typology and multilingual processing

Cognitive Technologies and the Pragmatics of Cognition 2007-08-23 technology has long been a helpful aid in human cognitive activities with its growing sophistication and usage technology is now taking a more intrinsic and active role in human cognition the shift from an external aid to being an internal component of cognitive processing reflects a revolution in technology cognition and their interaction the creation of such cognitive technologies transforms the traditional instrumental function of technology to a constitutive role that shapes and defines cognition itself this book which was originally published as a special issue of pragmatics cognition 13 3 2005 explores the new horizon of these cognitive technologies and their interactions with humans

Human Cognition 2010-03 the cognitive system theory introduced here provides the first fully scientific model of how the hominid brain works it explains how its two masterstrokes of cognitive development are achieved for each and every one of us in childhood it begins here by explaining how the mind originates and develops its power on the way resolving the mind

brain duality problem back cover
Cognition and Safety 2016-12-05 safety suffers from the variety of methods and models that are used to assess human performance for example operation is concerned primarily with human error while design deals with aligning the system to workload or situational awareness and the gap between the two disassociates safety assessment from design as a result system design creates constraints for the operator working at the sharp end which will inevitably lead to human error accidents and incidents across all industries have demonstrated the safety significance of this gap cognition and safety provides an integrated view of cognitive human issues to better enhance safety it combines operational with design related concepts of cognitive performance to provide an approach for safely managing cognitive issues throughout the lifecycle of a system from operational to senior management levels the book will be of direct interest to operational managers designers training specialists safety managers and operational staff dealing with human factors and safety issues scientists in the area of safety ergonomics and human factors regulators dealing with safety and human factors and practitioners in the field of human reliability
Language Learning, Discourse and Cognition 2018-12-15 language learning discourse and cognition studies in the tradition of andrea tyler comprises a collection of original empirically and theoretically motivated studies at the nexus of discourse analysis cognitive linguistics and second language learning the thematic relationships between these subfields and links between the studies are laid out in introductory and concluding chapters this edited volume is intended for both researchers and graduate students in linguistics and second language learning and teaching
Human Cognitive Neuropsychology (Classic Edition) 2017-07-14 cognitive neuropsychology seeks to understand impairments of specific cognitive functions in relation to a model of normal cognitive processing the conclusions drawn from the study of abnormal processes are in turn used in the development and testing of theories of normal cognition first published in 1988 this seminal book represented an attempt to synthesize and systematize progress in the study of cognitive neuropsychology and therefore provides an important snapshot of the field at the time in addition to reviewing different forms of impairment and discussing their implications for theories of normal function this book also examines the empirical and theoretical foundations of the subject including the use of single case studies and the assumptions that must be made about the mind and brain this classic edition marks 25 years in print and includes a brand new introduction written by the authors ellis and young the augmented edition of human cognitive neuropsychology published in 1997 is also still available this classic edition will be important reading for students of cognitive psychology cognitive neuroscience and neuropsychology
Conceptualizations of Time 2016-06-14 as time cannot be observed directly it must be analyzed in terms of mental categories which manifest themselves on various linguistic levels in this interdisciplinary volume novel approaches to time are proposed that consider temporality without time on the one hand and the coding of time in language including sign language and gestures on the other the contributions of the volume demonstrate that time is conceptualized not only in terms of space but in terms of other domains of human experience as well renowned specialists in the study of time the authors of this volume investigate this fascinating topic from a variety of perspectives philosophical linguistic anthropological neuro psychological and computational demonstrating a familiarity with both classical and recent approaches to the study of time and including up to date corpus based methods of study the volume will be of interest to philosophers linguists including specialists in cognitive linguistics corpus linguistics and computational linguistics anthropologists neuro

psychologists translators language teachers and graduate students

The Bounds of Cognition 2011-08-24 an alarming number of philosophers and cognitive scientists have argued that mind extends beyond the brain and body this book evaluates these arguments and suggests that typically it does not a timely and relevant study that exposes the need to develop a more sophisticated theory of cognition while pointing to a bold new direction in exploring the nature of cognition articulates and defends the mark of the cognitive a common sense theory used to distinguish between cognitive and non cognitive processes challenges the current popularity of extended cognition theory through critical analysis and by pointing out fallacies and shortcoming in the literature stimulates discussions that will advance debate about the nature of cognition in the cognitive sciences

Grammar and Cognition 2020-11-15 this volume brings together linguistic psychological and neurological research in a discussion of the cognitive dualism hypothesis whose central idea is that human cognitive activity in general and linguistic cognition in particular cannot reasonably be reduced to a single monolithic system of mental processing but that they have a dualistic organization drawing on a wide range of methodological approaches and theoretical frameworks that account for how language users mentally represent process and produce linguistic discourse the studies in this volume provide a critical examination of dualistic approaches to language and cognition and their impact on a number of fields the topics range from formulaic language the study of reasoning and linguistic discourse and the lexicon grammar distinction to studies of specific linguistic expressions and structures such as pragmatic markers and particles comment adverbs extra clausal elements in spoken discourse and the processing of syntactic groups

Cognitive Informatics for Revealing Human Cognition: Knowledge Manipulations in Natural Intelligence 2012-11-30 this book presents indepth research that builds a link between natural and life sciences with informatics and computer science for investigating cognitive mechanisms and the human information processes

The Structure of Time 2004-03-05 one of the most enigmatic aspects of experience concerns time since pre socratic times scholars have speculated about the nature of time asking questions such as what is time where does it come from where does it go the central proposal of the structure of time is that time at base constitutes a phenomenologically real experience drawing on findings in psychology neuroscience and utilising the perspective of cognitive linguistics this work argues that our experience of time may ultimately derive from perceptual processes which in turn enable us to perceive events as such temporal experience is a pre requisite for abilities such as event perception and comparison rather than an abstraction based on such phenomena the book represents an examination of the nature of temporal cognition with two foci i an investigation into pre conceptual temporal experience and ii an analysis of temporal structure at the conceptual level which derives from temporal experience

Ten Lectures on Cognition, Mental Representation, and the Self 2023-05-01 these ten lectures articulate a distinctive vision of the structure and workings of the human mind drawing from research on embodied cognition as well as from historically more entrenched approaches to the study of human thought on the author s view multifarious materials co contribute to the production of virtually all forms of human behavior rendering implausible the idea that human action is best explained by processes taking place in an autonomous mental arena those in the conscious mind or occurring at the so called personal level rather human behavior issues from a widely varied though nevertheless integrated collection of states and mechanisms the integrated nature of which is determined by a form of clustering in the components contributions to the production of intelligent behavior this package of

resources the cognitive system is the human self among its elements the cognitive system includes a vast number of representations many subsets of which share their content on the author s view redundancy of content itself constitutes an important explanatory quantity the greater the extent of content redundancy among representations that co contribute to the production of an instance of behavior the more fluid the behavior in the course of developing and applying these views the author addresses questions about the content of mental representations extended cognition the value of knowledge and group minds

Human Cognition 1998 this book introduces the essential and enduring contrasts that cognitive scientists study and reflects the state of the field through its own distinct point of view readers will gain an appreciation of the manner in which cognitive scientists resolve controversies while advancing what we know about human mental life covering every major topic in cognition with over 1300 references to recently published research and emerging ideas each chapter opens with a contrast between two perspectives and is organized around a discussion of the contrast and its implications much of the cited research has ecological validity that relates the ideas controversies and theories to everyday life it presents individual physiological cultural and gender based differences in cognition it also emphasizes the darwinian adaptability of cognitive processes and finally it presents the growing consensus that the human mind does not function like a digital computer but rather is multifaceted

Cognitive Psychology 2021-09-15 cognitive psychology the basics provides a compact introduction to the core topics in the field discussing the science behind the everyday cognitive phenomena experienced by us all the book considers laboratory and applied theory and research alongside technological developments to demonstrate how our understanding of the brain s role in cognition is improving all the time alongside coverage of traditional topics in the field including attention and perception learning and memory thinking problem solving and decision making and language the book also discusses developments in interrelated areas such as neuroscience and computational cognitive science new perspectives including the contribution of evolutionary psychology to our understanding of cognition are also considered before a thoughtful discussion of future research directions using real world examples throughout the authors explain in an accessible and student friendly manner the role our human cognition plays in all aspects of our lives it is an essential introductory text suitable for all students of cognitive psychology and related disciplines it will also be an ideal read for any reader interested in the role of the brain in human behavior

Bi-Directionality in the Cognitive Sciences 2011-07-13 cognitive science is the interdisciplinary study of the human mind as far as the exact relationship between the cognitive sciences and other fields is concerned however it appears that interdisciplinary exchange often remains unrealized possibly because of the uni directional application of theories concepts and methods which impedes the productive transfer of knowledge in both directions in the course of the cognitive turn in the humanities and social sciences many disciplines have selectively borrowed ideas from core cognitive sciences like psychology and artificial intelligence the day to day practice of interdisciplinarity thus thrives on one directional borrowings focusing on cognitive approaches in linguistics and literary studies this volume explores bi directionality a genuine transdisciplinary interchange in which both disciplines are borrowing and lending the contributions take different perspectives on bi directionality some extend uni directional borrowing practices and point to avenues and crossroads while others critically discuss obstacles challenges and limitations to bi directional transfer

A Mind for Structure 2006-09 the working principles of mind including their origins and evolution has long been a difficult and controversial area among psychologists but it is now

also under siege by cognitive scientists biologists anthropologists mathematicians computer modelers and even physicists yet little has been generally agreed even about basic everyday processes of perception and cognition critics now warn us about the overly simple notions of biological adaptation and cognitive processing that have flooded the field in recent years and they stress the need for new conceptual foundations in the area stressing work on complex dynamic systems with an eye on all these developments this book is an attempt to establish such foundations it stresses how the dynamic structure in environmental change has driven the evolution of living systems from the origins of life to human cognitive functions the ideas drawn together have many implications for research and theory on the human mind for the goals and purposes of science itself in such dynamic fields and for the nature of interventions in many practical domains

Human-Centred Web Adaptation and Personalization 2016-02-19 this book focuses on the importance of adaptation and personalization in today s society and the upgraded role computational systems and the internet play in our day to day activities in this era of wireless communication pervasive computing and the internet of things it is becoming increasingly critical to ensure humans remain central in the developmental process of new technologies to guarantee their continued usefulness and a positive end user experience organized into three clear parts theory principles and practice a holistic approach to designing and developing adaptive interactive systems and services has been adopted with an emphasis on distinct human factors both basic and applied research topics are explored extending from human centred user models driven by user s individual differences in cognitive processing and emotions to the creation of smart interfaces that can handle the ever increasing volume and complexity of information to the benefit of the end user human centred adaptation and personalization from theory to practice is meticulously crafted to serve researchers practitioners and students who wish to have an end to end understanding of how to convert pure research and scientific results into viable user interfaces system components and applications it will serve to bridge the knowledge gap that still remains by suggesting interaction design and implementation guidelines for areas like e commerce e learning and usable security

Cognitive Processing in the Right Hemisphere 2012-12-02 cognitive processing in the right hemisphere discusses different theories and concepts involved in the cognitive function of the right hemisphere after a short introduction to the potential of the right hemisphere the book goes on to further discuss the subject matter in four parts part i discusses cerebral lateralization cognitive asymmetry and human consciousness part ii tackles the normal cognitive function of the right hemisphere especially its emotional and linguistic functions as well as its involvement in imagery and affect part iii examines the effects of impairment of the right hemisphere and part iv discusses language rehabilitation through the right hemisphere and covers aphasia therapy and melodic intonation therapy the text is recommended for neurologists who would like to know in depth about the functions of the right hemisphere its underlying processes the effects of the damages it may incur and rehabilitation and therapy involving it

Embodied Cognition 2023-06-22 what is embodied cognition embodied cognition is a hypothesis that many facets of cognition whether human or another are molded by aspects of an organism s entire body this theory can be applied to both humans and other organisms many researchers believe that the sensory and motor systems are fundamentally intertwined with cognitive processing high level mental constructs and performance across a variety of cognitive activities are both included in the cognitive characteristics the motor system the perceptual system the physical interactions with the environment situatedness and the

assumptions about the world that are built into the functional structure of the organism are all considered to be part of the corporeal aspects how you will benefit i insights and validations about the following topics chapter 1 embodied cognition chapter 2 cognitive science chapter 3 cognition chapter 4 situated cognition chapter 5 embodied cognitive science chapter 6 enactivism chapter 7 motor cognition chapter 8 common coding theory chapter 9 embodied bilingual language chapter 10 social cognitive neuroscience ii answering the public top questions about embodied cognition iii real world examples for the usage of embodied cognition in many fields iv 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of embodied cognition technologies who this book is for professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of embodied cognition

Human Cognitive Neuropsychology 1996 an extended version of the first edition this book includes a set of research review papers which supplement the contents of each chapter by providing a discussion of current research issues and detailed investigations of individual cases

Methods in Cognitive Linguistics 2007 methods in cognitive linguistics is an introduction to empirical methodology for language researchers intended as a handbook to exploring the empirical dimension of the theoretical questions raised by cognitive linguistics the volume presents guidelines for employing methods from a variety of intersecting disciplines laying out different ways of gathering empirical evidence the book is divided into five sections methods and motivations provides the reader with the preliminary background in scientific methodology and statistics the sections on corpus and discourse analysis and sign language and gesture describe different ways of investigating usage data behavioral research describes methods for exploring mental representation simulation semantics child language development and the relationships between space and language and eye movements and cognition lastly neural approaches introduces the reader to erp research and to the computational modeling of language

Linguistic Attractors 1999 the interdisciplinary linguistic attractor model portrays language processing as linked sequences of fractal sets and examines the changing dynamics of such sets for individuals as well as the speech community they comprise its motivation stems from human anatomic constraints and several artificial neural network approaches it uses general computation theory to 1 demonstrate the capacity of cantor like fractal sets to perform as turing machines 2 better distinguish between models that simply match outputs emulation and models that match both outputs and internal dynamics simulation and 3 relate language processing to essential computation steps executed in parallel measure and information theory highlight the key variables driving linguistic dynamics while catastrophe and game theory help predict the possible topologies of language change it introduces techniques to isolate and measure attractors and to interpret their stability and relative content within a system important results include the capability to distinguish the sequence of related sound changes and to make point to point comparisons of different texts using common metrics other techniques allow quantifiable ambiguity landscapes illustrating the forces that propel different languages in different directions

Cognitive Linguistics 2011-11-10 cognitive linguistics is not a unified theory of language but rather a set of flexible and mutually compatible theoretical frameworks whether these frameworks can or should stabilize into a unified theory is open to debate one set of contributions to the volume focuses on evidence that strengthens the basic tenets of cl concerning e g non modularity meaning and embodiment a second set of chapters explores

the expansion of the general cl paradigm and the incorporation of theoretical insights from other disciplines and their methodologies a development that could lead to competing and mutually exclusive theories within the cl paradigm itself the authors are leading experts in cognitive grammar cognitive pragmatics metaphor and metonymy theory quantitative corpus linguistics functional linguistics and cognitive psychology this volume is therefore of great interest to scholars and students wishing to inform themselves about the current state and possible future developments of cognitive linguistics

Current Perspectives in Cognitive Processing by Domesticated Animals 2021-10-13 cognitive systems and the extended mind surveys philosophical issues raised by the situated movement in cognitive science that is the treatment of cognitive phenomena as the joint products of brain body and environment

Cognitive Systems and the Extended Mind 2009-08-19 significant new developments in brain activity research have revived the debate on the universality of language and its neural basis within this debate the question of language diversity and its implications for cognition remains central and controversial it is here investigated in an original multimodal approach covering various aspects of cross linguistic variation differences between spoken signed and drum languages between normal speech and pathological speech and also between language and music as revealed in electric brain activity associated with language processing the various contributions linguistic anthropological psychological and neurophysical on the nature and status of variation and invariants in language provides evidence for complex interactions between language specific processes and general cognitive faculties this overview of some recent trends in cognitive linguistics opens up a promising new research area in the humanities as well as in the cognitive sciences

Language Diversity and Cognitive Representations 1999-11-15 each chapter in this book is written by and devoted to the original work of a leading researcher in his or her own field the book presents an integrative approach to the psychological study of time in an attempt to bring to light similarities between bodies of research which have been developed independently within different theoretical frameworks from piaget s structuralist organismic model to information processing approaches the chapters are organized in a life span perspective with different chapters focusing on different age levels it includes analyses of time perception in infancy temporal systems in the developing language time conception time measurement and time reading in middle childhood and adolescence as well as various models of time perception in the adult both normal and abnormal a rich concept such as time sheds light on a wide variety of major topics in psychology the book will be of value to cognitive developmental and educational psychologists as well as to psycholinguists

Time and Human Cognition 1989-04-01 research on the embodiment hypothesis within cognitive linguistics and beyond is growing steadily aiming to bridge language culture and cognition this volume seeks to address the question regarding what specific roles individual body parts play in the embodied conceptualization of emotions mental faculties character traits cultural values and so on in various cultures as manifested in their respective languages it brings together some linguistic evidence that sheds light on the embodied nature of human cognition from languages as diverse as arabic chinese danish english estonian german greek indonesian japanese persian spanish and turkish the studies in this volume also show how embodiment is mediated in those languages through such cognitive mechanisms as metonymy and metaphor

Embodiment via Body Parts 2011-08-18 from the foreword in this book joscha bach introduces dietrich dörner s psi architecture and joscha s implementation of the micropsi architecture these architectures and their implementation have several lessons for other

architectures and models most notably the psi architecture includes drives and thus directly addresses questions of emotional behavior an architecture including drives helps clarify how emotions could arise it also changes the way that the architecture works on a fundamental level providing an architecture more suited for behaving autonomously in a simulated world psi includes three types of drives physiological e g hunger social i e affiliation needs and cognitive i e reduction of uncertainty and expression of competency these drives routinely influence goal formation and knowledge selection and application the resulting architecture generates new kinds of behaviors including context dependent memories socially motivated behavior and internally motivated task switching this architecture illustrates how emotions and physical drives can be included in an embodied cognitive architecture the psi architecture while including perceptual motor learning and cognitive processing components also includes several novel knowledge representations temporal structures spatial memories and several new information processing mechanisms and behaviors including progress through types of knowledge sources when problem solving the rasmussen ladder and knowledge based hierarchical active vision these mechanisms and representations suggest ways for making other architectures more realistic more accurate and easier to use the architecture is demonstrated in the island simulated environment while it may look like a simple game it was carefully designed to allow multiple tasks to be pursued and provides ways to satisfy the multiple drives it would be useful in its own right for developing other architectures interested in multi tasking long term learning social interaction embodied architectures and related aspects of behavior that arise in a complex but tractable real time environment the resulting models are not presented as validated cognitive models but as theoretical explorations in the space of architectures for generating behavior the sweep of the architecture can thus be larger it presents a new cognitive architecture attempting to provide a unified theory of cognition it attempts to cover perhaps the largest number of phenomena to date this is not a typical cognitive modeling work but one that i believe that we can learn much from frank e ritter series editor although computational models of cognition have become very popular these models are relatively limited in their coverage of cognition they usually only emphasize problem solving and reasoning or treat perception and motivation as isolated modules the first architecture to cover cognition more broadly is psi theory developed by dietrich dorner by integrating motivation and emotion with perception and reasoning and including grounded neuro symbolic representations psi contributes significantly to an integrated understanding of the mind it provides a conceptual framework that highlights the relationships between perception and memory language and mental representation reasoning and motivation emotion and cognition autonomy and social behavior it is however unfortunate that psi s origin in psychology its methodology and its lack of documentation have limited its impact the proposed book adapts psi theory to cognitive science and artificial intelligence by elucidating both its theoretical and technical frameworks and clarifying its contribution to how we have come to understand cognition

Principles of Synthetic Intelligence 2009-04-06 visuo spatial working memory in website navigation cognitive processing of visual design elements in virtual environments

Introduction to Cognitive Science 2013-11-08 in recent years the study of the conceptualization of time has seen a considerable growth providing a basis for exploring the cognitive foundation of metaphor but if metaphorical representations of time are established in the cognitive system how are they manipulated when humans are engaged in creative expression this is the question that the present volume addresses on the assumption that by interrogating creativity new insights into our understanding of time may be gained our view of creativity which informs the ten chapters that compose this volume endorses not only the

extraordinary instances found in poetry and the arts cinema music graphic novels etc but also its more mundane everyday manifestations that appear in ordinary language use political discourse or tv news spanning across modalities verbal pictorial auditory and gestural the exemplary expressions herein are intended to reflect the richness and diversity vis à vis the creativity of time representations while also pointing to the common underpinnings that motivate and constrain creativity

Time Representations in the Perspective of Human Creativity 2022-11-15 technological development has changed the nature of industrial production so that it is no longer a question of humans working with a machine but rather that a joint human machine system is performing the task this development which started in the 1940s has become even more pronounced with the proliferation of computers and the invasion of digital technology in all wakes of working life it may appear that the importance of human work has been reduced compared to what can be achieved by intelligent software systems but in reality the opposite is true the more complex a system the more vital the human operator s task the conditions have changed however whereas people used to be in control of their own tasks today they have become supervisors of tasks which are shared between humans and machines a considerable effort has been devoted to the domain of administrative and clerical work and has led to the establishment of an internationally based human computer interaction hci community at research and application levels the hci community however has paid more attention to static environments where the human operator is in complete control of the situation rather than to dynamic environments where changes may occur independent of human intervention and actions this book s basic philosophy is the conviction that human operators remain the unchallenged experts even in the worst cases where their working conditions have been impoverished by senseless automation they maintain this advantage due to their ability to learn and build up a high level of expertise a foundation of operational knowledge during their work this expertise must be taken into account in the development of efficient human machine systems in the specification of training requirements and in the identification of needs for specific computer support to human actions supporting this philosophy this volume deals with the main features of cognition in dynamic environments combining issues coming from empirical approaches of human cognition and cognitive simulation addresses the question of the development of competence and expertise and proposes ways to take up the main challenge in this domain the design of an actual cooperation between human experts and computers of the next century

Expertise and Technology 2013-06-17

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