



# DUALITY of the MIND

*A Bottom-Up Approach Toward Cognition*

Ron Sun

Routledge

A Psychology Press Book

# Duality Of The Mind A Bottom Up Approach Toward Cognition

**Laura Macchi, Maria Bagassi, Riccardo  
Viale**



## **Duality Of The Mind A Bottom Up Approach Toward Cognition:**

**Duality of the Mind** Ron Sun,2001-09-01 This book is a condensation of a large body of work concerning human learning carried out over a period of more than five years by Dr Sun and his collaborators In a nutshell this work is concerned with a broad framework for studying human cognition based on a new approach that is characterized by its focus on the dichotomy of and the interaction between explicit and implicit cognition and a computational model that implements this framework In this work a broad generic computational model was developed that instantiates Dr Sun s framework and enables the testing of his theoretical approach in a variety of ways With this model simulation results were matched with data of human cognition in a variety of different domains Formal mathematical and computational analyses were also carried out to further explore the model and its numerous implementational details Furthermore this book addresses some of the most significant theoretical issues such as symbol grounding intentionality social cognition consciousness and other theoretical issues in relation to the framework The general framework and the model developed generate interesting insights into these theoretical issues

**Integrating Cognitive Architectures into Virtual Character Design** Turner, Jeremy Owen,Nixon, Michael,Bernardet, Ulysses,DiPaola, Steve,2016-06-06 Cognitive architectures represent an umbrella term to describe ways in which the flow of thought can be engineered towards cerebral and behavioral outcomes Cognitive Architectures are meant to provide top down guidance a knowledge base interactive heuristics and concrete or fuzzy policies for which the virtual character can utilize for intelligent interaction with his her its situated virtual environment Integrating Cognitive Architectures into Virtual Character Design presents emerging research on virtual character artificial intelligence systems and procedures and the integration of cognitive architectures Emphasizing innovative methodologies for intelligent virtual character integration and design this publication is an ideal reference source for graduate level students researchers and professionals in the fields of artificial intelligence gaming and computer science

**Attention, Representation, and Human Performance** Slim Masmoudi,David Yun Dai,Abdelmajid Naceur,2012 This volume presents a rare occasion where scholars from Europe North Africa and North America share their research programs and findings revolving around an important theme integration Despite different research foci and methodologies there is a strong consensus that we need to understand a psychological phenomenon in all its complexity involving its neural psychological and social dimensions involving perception and conception and decision processes involving motivation emotion and cognition all in complex interaction This volume is intended to reach out to basic and applied psychological researchers cognitive and affective scientists learning scientists biologists sociologists neuropsychological researchers and philosophers who have an interest in an integrated understanding of the mind at work particularly pertaining to explanations of real life phenomena that have social and practical significance A distinct feature of this volume is that most research involved is heavily built on neuropsychological evidence while loyal to the experimental tradition with its focus on functional behavior in various

situations and conditions that mimic or resemble real life The viability of this approach to doing cutting edge research that is relevant and applicable to many real life phenomena should also make this body of research useful for a wide range of human endeavor from religion education to industrial and organizational psychology **Mind, Morality and Magic** Istvan Czachesz, Risto Uro, 2014-10-14 The cognitive science of religion that has emerged over the last twenty years is a multidisciplinary field that often challenges established theories in anthropology and comparative religion This new approach raises many questions for biblical studies as well What are the cross cultural cognitive mechanisms which explain the transmission of biblical texts How did the local and particular cultural traditions of ancient Israel and early Christianity develop What does the embodied and socially embedded nature of the human mind imply for the exegesis of biblical texts **Mind Morality and Magic** draws on a range of approaches to the study of the human mind including memory studies computer modeling cognitive theories of ritual social cognition evolutionary psychology biology of emotions and research on religious experience The volume explores how cognitive approaches to religion can shed light on classical concerns in biblical scholarship such as the transmission of traditions ritual and magic and ethics as well as uncover new questions and offer new methodologies *Cognitive Unconscious and Human Rationality* Laura Macchi, Maria Bagassi, Riccardo Viale, 2016-03-18 Examining the role of implicit unconscious thinking on reasoning decision making problem solving creativity and its neurocognitive basis for a genuinely psychological conception of rationality This volume contributes to a current debate within the psychology of thought that has wide implications for our ideas about creativity decision making and economic behavior The essays focus on the role of implicit unconscious thinking in creativity and problem solving the interaction of intuition and analytic thinking and the relationship between communicative heuristics and thought The analyses move beyond the conventional conception of mind informed by extra psychological theoretical models toward a genuinely psychological conception of rationality a rationality no longer limited to conscious explicit thought but able to exploit the intentional implicit level The contributors consider a new conception of human rationality that must cope with the uncertainty of the real world the implications of abandoning the normative model of classic logic and adopting a probabilistic approach instead the argumentative and linguistic aspects of reasoning and the role of implicit thought in reasoning creativity and its neurological base Contributors Maria Bagassi Linden J Ball Jean Baratgin Aron K Barbey Tilmann Betsch Eric Billaut Jean Fran ois Bonnefon Pierre Bonnier Shira Elqayam Keith Frankish Gerd Gigerenzer Ken Gilhooly Denis Hilton Anna Lang Stefanie Lindow Laura Macchi Hugo Mercier Giuseppe Mosconi Ian R Newman Mike Oaksford David Over Guy Politzer Johannes Ritter Steven A Sloman Edward J N Stupple Ron Sun Nicole H Theriault Valerie A Thompson Emmanuel Trouche Raymond Riccardo Viale *The Continuity of Mind* Michael Spivey, 2008-07-24 The Continuity of Mind presents a systematic overview of how perception cognition and action are partially overlapping segments of one continuous mental flow rather than three distinct mental systems The book is essential reading for those interested in the progression of the

Dynamical Cognition movement      **The Cambridge Handbook of Computational Cognitive Sciences** Ron Sun, 2023-05-11 The Cambridge Handbook of Computational Cognitive Sciences is a comprehensive reference for this rapidly developing and highly interdisciplinary field. Written with both newcomers and experts in mind, it provides an accessible introduction of paradigms, methodologies, approaches, and models with ample detail and illustrated by examples. It should appeal to researchers and students working within the computational cognitive sciences as well as those working in adjacent fields including philosophy, psychology, linguistics, anthropology, education, neuroscience, artificial intelligence, computer science, and more.

**Springer Handbook of Computational Intelligence** Janusz Kacprzyk, Witold Pedrycz, 2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics, the state of the art, and important applications of the dynamic and rapidly expanding discipline of computational intelligence. This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology. Possible approaches include, for example, those being inspired by biology, living organisms, and animate systems. Content is organized in seven parts: foundations, fuzzy logic, rough sets, evolutionary computation, neural networks, swarm intelligence, and hybrid computational intelligence systems. Each Part is supervised by its own Part Editor, so that high quality content as well as completeness are assured.

*Design Computing and Cognition'20* John S. Gero, 2022-02-24 The papers in this volume are from the Ninth International Conference on Design Computing and Cognition (DCC 20) held virtually at the Georgia Institute of Technology, Atlanta, USA. They represent the state of the art of research and development in design computing and design cognition, including the increasingly active area of design cognitive neuroscience. They are of particular interest to design researchers, developers, and users of advanced computation in designing, as well as to design educators. This volume contains knowledge about the cognitive behavior of designers, which is valuable for those who need to gain a better understanding of designing.

*The Acquisition of Knowledge and Skills for Taskwork and Teamwork to Control Complex Technical Systems* Annette Kluge, 2014-05-05 This book provides the first comprehensive literature review on the acquisition and retention of complex skills in High Reliability Organizations. Based on this review, it introduces a theoretical model of how skill and knowledge acquisition for complex tasks is accomplished and shows how this model can be used to derive training methods and instructional techniques. Successful acquisition and retention of complex technical skills within High Reliability Organizations requires a full understanding of the learning process, knowledge structure, and skill requirements associated with the effective operation and management of technology. For researchers and for organizations, the understanding of these processes is vital for designing training programs as well as for reducing errors with severe consequences for human lives and the environment. Until now, only theoretical fragments exist on this topic, and only a very limited number of publications actually address complex tasks in vocational/occupational settings. *The Acquisition of Knowledge and Skills for Task Work and Teamwork to Control Complex Technical Systems* uses its literature overview and theoretical model to formulate training

principles that can be used to develop training experiments for further empirical investigations as well as training methods for applied organizational contexts

**Computational Creativity Research: Towards Creative Machines** Tarek R. Besold, Marco Schorlemmer, Alan Smaill, 2014-12-04 Computational Creativity Concept Invention and General Intelligence in their own right all are flourishing research disciplines producing surprising and captivating results that continuously influence and change our view on where the limits of intelligent machines lie each day pushing the boundaries a bit further By 2014 all three fields also have left their marks on everyday life machine composed music has been performed in concert halls automated theorem provers are accepted tools in enterprises R D departments and cognitive architectures are being integrated in pilot assistance systems for next generation airplanes Still although the corresponding aims and goals are clearly similar as are the common methods and approaches the developments in each of these areas have happened mostly individually within the respective community and without closer relationships to the goings on in the other two disciplines In order to overcome this gap and to provide a common platform for interaction and exchange between the different directions the International Workshops on Computational Creativity Concept Invention and General Intelligence C3GI have been started At ECAI 2012 and IJCAI 2013 the first and second edition of C3GI each gathered researchers from all three fields presenting recent developments and results from their research and in dialogue and joint debates bridging the disciplinary boundaries The chapters contained in this book are based on expanded versions of accepted contributions to the workshops and additional selected contributions by renowned researchers in the relevant fields Individually they give an account of the state of the art in their respective area discussing both theoretical approaches as well as implemented systems When taken together and looked at from an integrative perspective the book in its totality offers a starting point for a re integration of Computational Creativity Concept Invention and General Intelligence making visible common lines of work and theoretical underpinnings and pointing at chances and opportunities arising from the interplay of the three fields

Organizational Routines Meet Experimental Psychology Maximilian Eberl, 2018-09-03 Using an experimental approach Maximilian Eberl evaluates the role of implicit learning CBM AAT for the modification of organizational routines Taking a vertical perspective on the collective entities in organizations shows an increasing role of impulsive processes the lower the level gets The horizontal perspective demonstrates the potential of implicit learning for the replication of routines Finally the time perspective highlights the contributions of implicit learning strategies for change in and of routines as well as the contributions of implicit learning to deal with the path dependence of routines

**Unification of Artificial Intelligence and Psychology** Petros A. M. Gelepithis, 2024-10-21 This book the first of a two volume monograph seeks to unify the hitherto perceived as disparate foundations of psychology and artificial intelligence It does this by replacing their constitutive notions with a novel common one no mon system The ensued Theory of No mon Systems is developed in terms of an interdisciplinary language based axiomatic approach The first volume details the development of the foundations of the

theory and expounds ramifications for cognitive science and AI including novel solutions to the AGI debate and Darwin's mental gap issue while offering the first complete definition of AI. The book concurrently explores the similarities and differences between humans and AI robot systems with respect to the evolution dependent phenomena of representation, thinking, understanding and communication. The book is an extensive one because of its extensiveness and broad ramifications; this book will appeal to scientists working on the interfaces of psychology, AI, philosophy of mind, neuroscience and the humanities. The complicated and extensive unification of the fields of Artificial Intelligence and psychology is continued in the second volume that breaks further new ground for both disciplines with thought provoking and compelling implications for both.

**Foundations of Trusted Autonomy** Hussein A. Abbass, Jason Scholz, Darryn J. Reid, 2018-01-15. This book establishes the foundations needed to realize the ultimate goals for artificial intelligence such as autonomy and trustworthiness. Aimed at scientists, researchers, technologists, practitioners and students, it brings together contributions offering the basics, the challenges and the state of the art on trusted autonomous systems in a single volume. The book is structured in three parts with chapters written by eminent researchers and outstanding practitioners and users in the field. The first part covers foundational artificial intelligence technologies while the second part covers philosophical, practical and technological perspectives on trust. Lastly, the third part presents advanced topics necessary to create future trusted autonomous systems. The book augments theory with real world applications including cyber security, defence and space.

*Origins of the Social Mind* Bruce J. Ellis, David F. Bjorklund, 2005-01-01. Applying an evolutionary framework to advance the understanding of child development, this volume brings together leading figures to contribute chapters in their areas of expertise. Researcher and student friendly chapters adhere to a common format.

Augmented Cognition. Enhancing Cognition and Behavior in Complex Human Environments Dylan D. Schmorrow, Cali M. Fidopiastis, 2017-06-28. This volume constitutes the proceedings of the 11th International Conference on Augmented Cognition (AC 2017) held as part of the International Conference on Human Computer Interaction (HCI 2017) which took place in Vancouver, BC, Canada in July 2017. HCI 2017 received a total of 4340 submissions of which 1228 papers were accepted for publication after a careful reviewing process. The papers thoroughly cover the entire field of Human Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The two volumes set of AC 2017 presents 81 papers which are organized in the following topical sections: electroencephalography and brain activity measurement, eye tracking in augmented cognition, physiological measuring and bio sensing, machine learning in augmented cognition, cognitive load and performance, adaptive learning systems, brain computer interfaces, human cognition and behavior in complex tasks and environments.

Perspectives on Spiritual Intelligence Marius Dorobantu, Fraser Watts, 2024-07-29. The topic of intelligence involves questions that cut deep into ultimate concerns and human identity and the study of intelligence is an ideal ground for dialogue between science and religion. This volume investigates the notion of spiritual intelligence from a

variety of perspectives bringing together contributions from theology computer science linguistics psychology biology and cognitive science It defines spiritual intelligence as processing things differently not processing different things and aims to describe it in naturalistic terms Spiritual intelligence is not regarded as a separate mental module or a magical ability to interact with the supernatural but rather as a specific more spiritual way of engagement with reality which has observable cognitive phenomenal and linguistic characteristics The book is valuable reading for those working at the interface between science and spirituality

### **Relational Methodologies and Epistemology in Economics and Management Sciences**

Biggiero, Lucio, 2016-01-18 The social sciences especially economics management and organizational science are experiencing a tremendous renewed interest for their epistemological and methodological statutes as witnessed by the many books and specialized journals established during the last two decades Relational Methodologies and Epistemology in the Economics and Management Sciences identifies and presents the four main network based methodologies including network analysis Boolean network simulation modeling artificial neural network simulation modeling and agent based simulation modeling in addition to their conceptual epistemological implications and concrete applications within the social and natural sciences Featuring a critical assessment of relational methodologies and their practical applications this timely publication is ideal for use by corporate R D departments researchers theorists and graduate level students

### **Merging Symbolic and Data-Driven AI for Robot Autonomy**

Nikos Katzouris, Simona Perri, Mohan Sridharan, Daniele Meli, 2025-09-08 Robots are increasingly being deployed to assist and collaborate with humans in many applications such as medicine navigation and industrial automation To truly collaborate with humans in complex environments robots require advanced cognitive capabilities including the ability to reason with domain specific commonsense knowledge and the noise observations obtained in the presence of partial observability and non deterministic action outcomes Research in Artificial Intelligence AI has resulted in sophisticated symbolic formalisms that use temporal and logic relations to represent commonsense domain knowledge as well as probabilistic data driven frameworks that quantitatively represent uncertainty in the decision making process of robot systems Stand alone symbolic or stochastic AI methods have limitations when applied to robots in complex scenarios Symbolic AI methods reason with relational descriptions of the attributes of the domain and the robot to guide the robot's behavior It is however often computationally intractable to use these methods to reason about uncertainty quantitatively or to operate at the level of granularity required for precise interaction with objects in complex domains Probabilistic and data driven AI methods on the other hand elegantly represent uncertainty quantitatively and provide mechanisms for reasoning and acting at the level of granularity required for interaction with the physical worlds These methods however offer limited expressiveness for complex cognitive concepts

### **The Whole Person**

Mark H. Bickhard, 2024-11-27 The Whole Person explores the realms of theory and philosophy concerning minds and persons This book presents models of the emergent realization of multiple mental processes and of the constitution of social realities and



social persons Each chapter explores prevalent theoretical and philosophical assumptions that obstruct the acceptance of models depicting emergent realization offering analyses of these barriers and demonstrating ways to overcome them Rooted in the framework of process metaphysics this book models metaphysically genuine emergence paving the way for a comprehensive model of multifarious normative emergences These normative emergences include phenomena such as function dysfunction representational truth and falsity rational irrational ethical unethical and others that shape our mental and social landscapes The discussion extends to the macro evolutionary culmination of mental processes in a model of reflective consciousness The book then extends its exploration to the foundational role of mental processes in the emergence of social realities and persons with language acting as a core element in these emergences Addressing evolutionary aspects brain processes developmental processes moral normativities and self consistency considerations The Whole Person presents a holistic integration of decades of constructive work Endorsements This ambitious yet unpretentious carefully constructed and argued book is a must read for anyone with serious interest in the nature of persons and the psychology of personhood Mark Bickhard s The Whole Person is a sustained and convincing narrative about our individual and collective evolution and emergence as the unique beings that we are Of particular interest is his account of the emergence of persons as homo socius Here Professor Bickhard captures key but often overlooked historical sociocultural and socio developmental dynamics and processes that make us who we are a species constantly interacting with each other and the world in a never ending process of mutual co constitution By theorizing a process metaphysics replete with emergent normativity that does not clash with a naturalistic ontological psychology Bickhard takes a giant step toward seeing ourselves as we are and as we might become Jack Martin Professor Emeritus Simon Fraser University A typical psychological theory offers narrow generalizations about data sets obtained by semi proprietary empirical methods The basic empirical research on which such theories have depended is in crisis tremendous effort has gone into ill motivated studies applying statistics inappropriately to inadequate samples too often generating irreproducible results The kind of theory that psychology needs is broad and deep pays no respect to boundaries between specialties makes falsifiable predictions and answers to arguments in principle The Whole Person presents just such a theory psychologists whether their aim is to extend it and support it or to challenge it and refute it will benefit from studying it closely Robert L Campbell Professor Emeritus Psychology Clemson University

## Decoding **Duality Of The Mind A Bottom Up Approach Toward Cognition**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Duality Of The Mind A Bottom Up Approach Toward Cognition**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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