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The Computational Infant-Julie Rutkowska 1993
Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence-Gogate, Lakshmi 2013-02-28 The process of learning words and languages may seem like an instinctual trait, inherent to nearly all humans from a young age. However, a vast range of complex research and information exists in detailing the complexities of the process of word learning. Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence strives to combine cross-disciplinary research into one comprehensive volume to help readers gain a fuller understanding of the developmental processes and influences that makeup the progression of word learning. Blending together developmental psychology and artificial intelligence, this publication is intended for researchers, practitioners, and educators who are interested in language learning and its development as well as computational models formed from these specific areas of research.
Emergent Neural Computational Architectures Based on Neuroscience-Stefan Wermter 2003-05-15 It is generally understood that the present approachs to computing do not have the performance, flexibility, and reliability of biological information processing systems. Although there is a comprehensive body of knowledge regarding how information processing occurs in the brain and central nervous system this has had little impact on mainstream computing so far. This book presents a broad spectrum of current research into biologically inspired computational systems and thus contributes towards developing new computational approaches based on neuroscience. The 39 revised full papers by leading researchers were carefully selected and reviewed for inclusion in this anthology. Besides an introductory overview by the volume editors, the book offers topical parts on modular organization and robustness, timing and synchronization, and learning and memory storage.
Computational Explorations in Cognitive Neuroscience-Randall C. O'Reilly 2000 This text introduces the reader to the main ideas in the field of computational cognitive neuroscience. The aim of the discipline is to understand how the brain embodies the mind by using biologically based computational models which simulate neuronal networks.
Computational Models of Cognitive Processes-Julien Mayor 2013-11-18 Computational Models of Cognitive Processes collects refereed versions of papers presented at the 13th Neural Computation and Psychology Workshop (NCPW13) that took place July 2012, in San Sebastian (Spain). This workshop series is a well-established and unique forum that brings together researchers from such diverse disciplines as artificial intelligence, cognitive science, computer science, neurobiology, philosophy and psychology to discuss their latest work on models of cognitive processes.
Applications of Computational Intelligence-Alvaro David Orjuela-Cañón 2019-12-04 This book constitutes the thoroughly refereed proceedings of the Second IEEE Colombian Conference, ColCACI 2019, held in Barranquilla, Colombia, in June 2019. The 21 full papers presented were carefully reviewed and selected from 59 submissions. The papers cover such topics as video processing; biomedical systems; image processing, etc.

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Computational Intelligence in Archaeology-Barcelo, Juan A. 2008-07-31 Provides analytical theories offered by innovative artificial intelligence computing methods in the archaeological domain.
Infant Development-Alan Slater 1989 The book provides detailed up to date and authoritative accounts of major areas of infant development. The 11 chapters are subdivided into three sections: Perceptual Development (4 chapters); Cognitive Development (3 chapters); Social Interaction, Early Language and Emotion (4 chapters). While written by different contributors the book is a well?integrated account of current developments in our understanding of infant development. Integration of the chapters is assisted by the editors' linking sections which introduce each of the three major sections of the book. The book begins with an account of the development of basic visual functions in early infancy and of visual memory and perceptual capabilities of the infant. This is followed by recent research into infants' ability to detect and respond to events and encounters, a theme which emphasises the continuity of perceptual and cognitive development. Cognitive development is further pursued by an account of the complex area of object permanence, and the development of spatial awareness, and how infants learn to solve problems. In the final section early social and language development are explored. Infants learn language in a social context and the social structuring of infant cognition and language is next considered. The final chapter considers the role of emotion in infant development from a psychoanalytic perspective. The book presupposes no detailed knowledge of infancy on the part of the reader, but at the same time the reader is guided to an understanding of the topical and lively controversies that represent the current state of the art and which make the field of infant development such a lively and interesting area of study.lopment of spatial awareness, and how infants learn to solve problems. In the final section early social and language development are explored. Infants learn language in a social context and the social structuring of infant cognition and language is next considered. The final chapter considers the role of emotion in infant development from a psychoanalytic perspective. The book presupposes no detailed knowledge of infancy on the part of the reader, but at the same time the reader is guided to an understanding of the topical and lively controversies that represent the current state of the art and which make the field of infant development such a lively and interesting area of study.
The Wiley-Blackwell Handbook of Infant Development, Volume 1-J. Gavin Bremner 2011-07-11 Now part of a two-volume set, the fully revised and updated second edition of The Wiley-Blackwell Handbook of Infant Development, Volume 1: Basic Research provides comprehensive coverage of the basic research relating to infant development. Updated, fully-revised and expanded, this two-volume set presents in-depth and cutting edge coverage of both basic and applied developmental issues during infancy Features contributions by leading international researchers and practitioners in the field that reflect the most current theories and research findings Includes editor commentary and analysis to synthesize the material and provide further insight The most comprehensive work available in this dynamic and rapidly growing field
The Wiley-Blackwell Handbook of Infant Development, Volume 1, Volume 1-J. Gavin Bremner 2010-09-20 Now part of a two-volume set, the fully revised and updated second edition of The Wiley-Blackwell Handbook of Infant Development, Volume 1: Basic Research provides comprehensive coverage of the basic research relating to infant development. Updated, fully-revised and expanded, this two-volume set presents in-depth and cutting edge coverage of both basic and applied developmental issues during infancy Features contributions by leading international researchers and practitioners in the field that reflect the most current theories and research findings Includes editor commentary and analysis to synthesize the material and provide further insight The most comprehensive work available in this dynamic and rapidly growing field
50 years after the perceptron, 25 years after PDP: Neural computation in language sciences- Julien Mayor 2014-08-11 This Research Topic aims to showcase the state of the art in language research while celebrating the 25th anniversary of the tremendously influential work of the PDP group, and the 50th anniversary of the perceptron. Although PDP models are often the gold standard to which new models are compared, the scope of this Research Topic is not constrained to connectionist models. Instead, we aimed to create a landmark forum in which experts in the field define the state of the art and future directions of the psychological processes underlying language learning and use, broadly defined. We thus called for papers involving computational modeling and original research as well as technical, philosophical, or historical discussions pertaining to models of cognition. We especially encouraged submissions aimed at contrasting different computational frameworks, and their relationship to imaging and behavioral data.
Computational Intelligence and Bioinformatics-De-Shuang Huang 2006-08-03 This book constitutes the refereed proceedings of the International Conference on Intelligent Computing, ICIC 2006, held in

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Kunming, China, in August 2006. The book presents 165 revised full papers, carefully reviewed. Topics covered include ant colony optimization, particle swarm optimization, swarm intelligence, autonomy-oriented computing, quantum and molecular computations, biological and DNA computing, intelligent computing in bioinformatics, intelligent computing in computational biology and drug design, computational genomics and proteomics, and more.
Developmental Psychology-J. Gavin Bremner 2005
Quantum Computing for Babies-Chris Ferrie 2018-04-03 The bestselling scientific series is expanding! With scientific and mathematical information from an expert, this is the perfect book for enlightening the next generation of geniuses. Introduce your baby to programming and computer basics in this must-have board book for nerdy babies! Written by industry experts, Quantum Computing for Babies is a colorfully simple introduction to the magical world of quantum computers. Babies (and grownups!) will discover the difference between bits and qubits and how quantum computers will change our future. With a tongue-in-cheek approach that adults will love, this installment of the Baby University board book series is the perfect way to introduce basic concepts to even the youngest scientists. After all, it's never too early to become a quantum physicist! Baby University: It only takes a small spark to ignite a child's mind. Other Baby University titles include: Quantum Physics for Babies Rocket Science for Babies Neural Networks for Babies Organic Chemistry for Babies
Learning and Instruction- 2002
Computational Maps in the Visual Cortex-Risto Miikkulainen 2006-01-16 For more than 30 years, the visual cortex has been the source of new theories and ideas about how the brain processes information. The visual cortex is easily accessible through a variety of recording and imagining techniques and allows mapping of high level behavior relatively directly to neural mechanisms. Understanding the computations in the visual cortex is therefore an important step toward a general theory of computational brain theory.
Speaker Perception and Recognition. An Integrative Framework for Computational Speech Processing-Oxana Lapteva 2011
Computational Aspects of Contingency Detection-Javier Rodriguez-Movellan 1989
Computational Approaches to Language Acquisition-Michael R. Brent 1997 The past fifteen years have seen great changes in the field of language acquisition. New experimental methods have yielded insights into the linguistic knowledge of ever younger children, and interest has grown in the phonological, syntactic, and semantic aspects of the lexicon. Computational investigations of language acquisition have also changed, reflecting, among other things, the profound shift in the field of natural language processing from hand-crafted grammars to grammars that are learned automatically from samples of naturally occurring language.Each of the four research papers in this book takes a novel formal approach to a particular problem in language acquisition. In the first paper, J. M. Siskind looks at developmentally inspired models of word learning. In the second, M. R. Brent and T. A. Cartwright look at how children could discover the sounds of words, given that word boundaries are not marked by any acoustic analog of the spaces between written words. In the third, P. Resnik measures the association between verbs and the semantic categories of their arguments that children likely use as clues to verb meanings. Finally, P. Niyogi and R. C. Berwick address the setting of syntactic parameters such as headedness--for example, whether the direct object comes before or after the verb.
Computational Intelligence. Theory and Applications-Dortmunder Fuzzy-Tage 1997 1997-04-16 This book constitutes the refereed proceedings of the International Conference on Computational Intelligence held in Dortmund, Germany, as the 5th Fuzzy Days, in April 1997. Besides three invited contributions, the book presents 53 revised full papers selected from a total of 130 submissions. Also included are 35 posters documenting a broad scope of applications of computational intelligence techniques in a variety of areas. The volume addresses all current issues in computational intelligence, e.g. fuzzy logic, fuzzy control, neural networks, evolutionary algorithms, genetic programming, neuro-fuzzy systems, adaptation and learning, machine learning, etc.
Connectionist Models of Neurocognition and Emergent Behavior-Eddy J. Davelaar 2012 This volume collects together most of the papers presented at the Twelfth Neural Computation and Psychology Workshop (NCPW12) held in 2010 at Birkbeck College (England). The conference invited submissions on neurocomputational models of all cognitive and psychological processes. The special theme of this conference was OC From Theory to ApplicationsOCO, which allowed submissions of pure theoretical work and of pure applied work. This topic extended the boundaries of the conference and highlighted the extent to which computational models of cognition and models in general are integrated in the cognitive sciences. The chapters in this book cover a wide range of research topics in neural computation and

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psychology, including cognitive development, language processing, higher-level cognition, but also ecology-based modeling of cognition, philosophy of science, and real-world applications."
Piaget-Margaret A. Boden 1994 A concise, critical introduction to the work of the renowned development psychologist, Jean Piaget (1896-1980)
Neuroconstructivism: How the brain constructs cognition-Denis Mareschal 2007 What are the processes, from conception to adulthood, that enable a single cell to grow into a sentient adult? This work sets out a whole new framework for considering the complex topic of development, integrating data from cognitive studies, computational work, and neuroimaging.
The Origin of Concepts-Susan Carey 2009-05-06 Only human beings have a rich conceptual repertoire with concepts like tort, entropy, Abelian group, mannerism, icon and deconstruction. How have humans constructed these concepts? And once they have been constructed by adults, how do children acquire them? While primarily focusing on the second question, in The Origin of Concepts , Susan Carey shows that the answers to both overlap substantially. Carey begins by characterizing the innate starting point for conceptual development, namely systems of core cognition. Representations of core cognition are the output of dedicated input analyzers, as with perceptual representations, but these core representations differ from perceptual representations in having more abstract contents and richer functional roles. Carey argues that the key to understanding cognitive development lies in recognizing conceptual discontinuities in which new representational systems emerge that have more expressive power than core cognition and are also incommensurate with core cognition and other earlier representational systems. Finally, Carey fleshes out Quinian bootstrapping, a learning mechanism that has been repeatedly sketched in the literature on the history and philosophy of science. She demonstrates that Quinian bootstrapping is a major mechanism in the construction of new representational resources over the course of childrens cognitive development. Carey shows how developmental cognitive science resolves aspects of long-standing philosophical debates about the existence, nature, content, and format of innate knowledge. She also shows that understanding the processes of conceptual development in children illuminates the historical process by which concepts are constructed, and transforms the way we think about philosophical problems about the nature of concepts and the relations between language and thought.
Proceedings of the First Brazilian Symposium on Mathematical and Computational Biology-Rubem Mondaini 2001
Current Research in Britain-Cartermill International Limited 1998-10
Medical Image Computing and Computer-Assisted Intervention -- MICCAI 2004-Christian Barillot 2004-09-17 The 7th International Conference on Medical Imaging and Computer Assisted Intervention, MICCAI 2004, was held in Saint-Malo, Brittany, France at the “Palais du Grand Large” conference center, September 26–29, 2004. The p- posaltohostMICCAI2004wasstronglyencouragedandsupportedbyIRISA, Rennes. IRISA is a publicly funded national research laboratory with a sta? of 370,including150full-timeresearchscientistsorteachingresearchscientistsand 115 postgraduate students. INRIA, the CNRS, and the University of Rennes 1 are all partners in this mixed research unit, and all three organizations were helpful in supporting MICCAI. MICCAI has become a premier international conference with in-depth - pers on the multidisciplinary ?elds of medical image computing, comput- assisted intervention and medical robotics. The conference brings together cl- icians, biological scientists, computer scientists, engineers, physicists and other researchers and o?ers them a forum to exchange ideas in these exciting and rapidly growing ?elds. The impact of MICCAI increases each year and the quality and quantity of submitted papers this year was very impressive. We received a record 516 full submissions (8 pages in length) and 101 short communications (2 pages) from 36 di?erent countries and 5 continents (see ?gures below). All submissions were reviewed by up to 4 external reviewers from the Scienti?c Review C- mittee and a primary reviewer from the Program Committee. All reviews were then considered by the MICCAI 2004 Program Committee, resulting in the acceptance of 235 full papers and 33 short communications.
A Computational Modeling Account of Robust Preference Reversal Phenomena-Joseph Gerald Johnson 2004
Cyborg Babies-Robbie Davis-Floyd 1998 Cyborg Babies tracks the process of reproducing children in symbiosis with pervasive technology and offers a range of perspectives, from resistance to ethnographic analysis to science fiction.
Handbook of Infant Development-Joy D. Osofsky 1987-05-14 This Second Edition of the Handbook does much more than update the first edition; because the field of infancy has grown so much in recent years, and continues to grow, this volume now includes perspectives on many new issues. Covers issues such as the concept and influence of temperament, meaning of attachment relationships, continuities and

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discontinuities, infant mental health, media, society and child development. The Second Edition includes several European chapters, providing a review of infancy research from the Continent. Includes more clinical perspectives on infant development and discusses implications of the research for intervention and application.
Standpoints and Differences-Karen Henwood 1998-09-14 This volume investigates a key area of theoretical interest within contemporary feminist and poststructuralist theory, paying particular attention to feminist psychology. Recognizing that feminist researchers have a long-standing commitment to conducting research from feminist standpoints, the contributors consider the tensions between this and the poststructuralist argument that research and emancipatory politics can flow from personal and political differences. The volume considers questions and developments on `giving voice', and explores arguments and theoretical positions concerning power and subjectivity, paying attention to how these inform research practice.
The Scanning Patterns of Human Infants-Gordon W. Bronson 1982 The study analyzes the visual scanning characteristic of infants from the time of birth to five months of age, an interval of rapid advances in visul encoding capabilities. The work is based on the assumption that what an infant learns about the visual world will depend to a large degree on the manner in which it is examined. The volume draws upon recent findings from the neurosciences to aid in the interpretation of the behavioral data on infant scanning characteristics.
Computational Visualistics, Media Informatics, and Virtual Communities-Jochen Schneider 2013-04-17 In April, 2003 representatives of a group of mostly German research universities offering degree programs in the areas of Computational Visualistics and Media Informatics met for the first time in Magdeburg, Germany. This volume collects information on their views of their own degree and research programs as a starting point for discussions.
Handbook of Anatomical Models for Radiation Dosimetry-Xie George Xu 2009-09-01 Over the past few decades, the radiological science community has developed and applied numerous models of the human body for radiation protection, diagnostic imaging, and nuclear medicine therapy. The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational models, known as "phantoms." An ambitious and unparalleled project, this pioneering work is the result of several years of planning and preparation involving 64 authors from across the world. It brings together recommendations and information sanctioned by the International Commission on Radiological Protection (ICRP) and documents 40 years of history and the progress of those involved with cutting-edge work with Monte Carlo Codes and radiation protection dosimetry. This volume was in part spurred on by the ICRP’s key decision to adopt voxelized computational phantoms as standards for radiation protection purposes. It is an invaluable reference for those working in that area as well as those employing or developing anatomical models for a a number of clinical applications. Assembling the work of nearly all major phantom developers around the world, this volume examines: The history of the research and development in computational phantoms Detailed accounts for each of the well-known phantoms, including the MIRD-5, GSF Voxel Family Phantoms, NCAT, UF Hybrid Pediatric Phantoms, VIP-Man, and the latest ICRP Reference Phantoms Physical phantoms for experimental radiation dosimetry The smallest voxel size (0.2 mm), phantoms developed from the Chinese Visible Human Project Applications for radiation protection dosimetry involving environmental, nuclear power plant, and internal contamination exposures Medical applications, including nuclear medicine therapy, CT examinations, x-ray radiological image optimization, nuclear medicine imaging, external photon and proton treatments, and management of respiration in modern image-guided radiation treatment Patient-specific phantoms used for radiation treatment planning involving two Monte Carlo code systems: GEANT4 and EGS Future needs for research and development Related data sets are available for download on the authors’ website. The breadth and depth of this work enables readers to obtain a unique sense of the complete scientific process in computational phantom development, from the conception of an idea, to the identification of original anatomical data, to solutions of various computing problems, and finally, to the ownership and sharing of results in this groundbreaking field that holds so much promise.
Computational Methods for Reliability and Risk Analysis-Enrico Zio 2009 This book illustrates a number of modelling and computational techniques for addressing relevant issues in reliability and risk analysis. In particular, it provides: i) a basic illustration of some methods used in reliability and risk analysis for modelling the stochastic failure and repair behaviour of systems, e.g. the Markov and Monte Carlo simulation methods; ii) an introduction to Genetic Algorithms, tailored to their application for RAMS (Reliability, Availability, Maintainability and Safety) optimization; iii) an introduction to key issues of

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system reliability and risk analysis, like dependent failures and importance measures; and iv) a presentation of the issue of uncertainty and of the techniques of sensitivity and uncertainty analysis used in support of reliability and risk analysis.The book provides a technical basis for senior undergraduate or graduate courses and a reference for researchers and practitioners in the field of reliability and risk analysis. Several practical examples are included to demonstrate the application of the concepts and techniques in practice.
The Origins of Object Knowledge-Bruce M. Hood 2009-03-19 'The Origins of Object Knowledge' presents the most up-to-date research into how the developing human mind understands the world of objects and their properties. It presents some of the best findings from leading research groups in the field of object representation from the perspective of developmental and comparative psychology.
Cognitive Science-José Luis Bermúdez 2010-08-05 Cognitive science is at last treated as a unified subject in this exciting textbook. Students are introduced to the techniques and main theoretical models of the cognitive scientist's toolkit, and shown how this vibrant science is applied to unlock the mysteries of the human mind.
Successful Children, Successful Teaching-Roger Merry 1998 Merry encourages teachers to reflect on their own thinking as well as on children's learning, and offers ways in which busy teachers can realistically take up some recent ideas from psychology. He also gives an overview of successful teaching.
JASO- 1995
Journal of the Anthropological Society of Oxford-Anthropological Society of Oxford 1995

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