

# *Object Recognition in Man, Monkey, and Machine*

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AMSTERDAM  
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# Object Recognition In Man Monkey And Machine

**Ying Liu**

## **Object Recognition In Man Monkey And Machine:**

*Object Recognition in Man, Monkey, and Machine* Michael J. Tarr, Heinrich H. Bulthoff, 1999-03-15 The contributors bring a wide range of methodologies to bear on the common problem of image based object recognition. These interconnected essays on three dimensional visual object recognition present cutting edge research by some of the most creative neuroscientific cognitive and computational scientists in the field. Cassandra Moore and Patrick Cavanagh take a classic demonstration the perception of two tone images and turn it into a method for understanding the nature of object representations in terms of surfaces and the interaction between bottom up and top down processes. Michael J Tarr and Isabel Gauthier use computer graphics to study whether viewpoint dependent recognition mechanisms can generalize between exemplars of perceptually defined classes. Melvyn A Goodale and G Keith Humphrey use innovative psychophysical techniques to investigate dissociable aspects of visual and spatial processing in brain injured subjects. D I Perrett, M W Oram and E Ashbridge combine neurophysiological single cell data from monkeys with computational analyses for a new way of thinking about the mechanisms that mediate viewpoint dependent object recognition and mental rotation. Shimon Ullman also addresses possible mechanisms to account for viewpoint dependent behavior but from the perspective of machine vision. Finally Philippe G Schyns synthesizes work from many areas to provide a coherent account of how stimulus class and recognition task interact. The contributors bring a wide range of methodologies to bear on the common problem of image based object recognition. [Image-based Object Recognition in Man, Monkey and Machine](#), 1998 **2D Object Detection and Recognition** Yali Amit, 2002 A guide to the computer detection and recognition of 2D objects in gray level images

*Object Recognition, Attention, and Action* Naoyuki Osaka, Ingo Rentschler, Irving Biederman, 2009-03-12 Human object recognition is a classical topic both for philosophy and for the natural sciences. Ultimately understanding of object recognition will be promoted by the cooperation of behavioral research, neurophysiology and computation. This original book provides an excellent introduction to the issues that are involved. It contains chapters that address the ways in which humans and machines attend to recognize and act toward objects in the visual environment. **Perception of Faces, Objects, and Scenes** Mary A. Peterson, Gillian Rhodes, 2003-05-22 From a barrage of photons we readily and effortlessly recognize the faces of our friends and the familiar objects and scenes around us. However these tasks cannot be simple for our visual systems. Faces are all extremely similar as visual patterns and objects look quite different when viewed from different viewpoints. How do our visual systems solve these problems? The contributors to this volume seek to answer this question by exploring how analytic and holistic processes contribute to our perception of faces, objects and scenes. *Intelligent Autonomous Systems 7* Maria Gini, 2002 The goal of the Seventh International Conference on Intelligent Autonomous Systems (IAS 7) was to exchange and stimulate research ideas that make future robots and systems more intelligent and autonomous. This volume of proceedings contains 71 technical papers by authors from 15 countries. **Bio-Inspired**

*Applications of Connectionism* Jose Mira, Alberto Prieto, 2003-06-29 Underlying most of the IWANN calls for papers is the aim to reassume some of the motivations of the groundwork stages of biocybernetics and the later bionics formulations and to try to reconsider the present value of two basic questions. The first question is What does neuroscience bring into computation? The new bionics. That is to say how can we seek inspiration in biology. Titles such as computational intelligence, artificial neural nets, genetic algorithms, evolutionary hardware, evolutive architectures, embryonics, sensory and morphic systems, and emotional robotics are representatives of the present interest in biological electronics bionics. The second question is What can return computation to neuroscience? That is to say how can mathematics, electronics, computer science, and artificial intelligence help the neurobiologists to improve their experimental data modeling and to move a step forward towards the understanding of the nervous system. Relevant here are the general philosophy of the IWANN conferences, the sustained interdisciplinary approach and the global strategy again and again to bring together physiologists and computer experts to consider the common and pertinent questions and the shared methods to answer these questions.

*What can simple brains teach us about how vision works?* Davide Zoccolan, David D. Cox, Andrea Benucci, R. Clay Reid, 2015-11-18 Vision is the process of extracting behaviorally relevant information from patterns of light that fall on retina as the eyes sample the outside world. Traditionally nonhuman primates, macaque monkeys in particular, have been viewed by many as the animal model of choice for investigating the neuronal substrates of visual processing not only because their visual systems closely mirror our own but also because it is often assumed that simpler brains lack advanced visual processing machinery. However, this narrow view of visual neuroscience ignores the fact that vision is widely distributed throughout the animal kingdom, enabling a wide repertoire of complex behaviors in species from insects to birds, fish, and mammals. Recent years have seen a resurgence of interest in alternative animal models for vision research, especially rodents. This resurgence is partly due to the availability of increasingly powerful experimental approaches, e.g., optogenetics and two-photon imaging, that are challenging to apply to their full potential in primates. Meanwhile, even more phylogenetically distant species such as birds, fish, and insects have long been workhorse animal models for gaining insight into the core computations underlying visual processing. In many cases, these animal models are valuable precisely because their visual systems are simpler than the primate visual system. Simpler systems are often easier to understand and studying a diversity of neuronal systems that achieve similar functions can focus attention on those computational principles that are universal and essential. This Research Topic provides a survey of the state of the art in the use of animal models of visual functions that are alternative to macaques. It includes original research, methods, articles, reviews, and opinions that exploit a variety of animal models, including rodents, birds, fishes, and insects, as well as small New World monkeys, the marmoset, to investigate visual function. The experimental approaches covered by these studies range from psychophysics and electrophysiology to histology and genetics, testifying to the richness and depth of visual neuroscience in non-macaque species.

**Springer Handbook of**

**Robotics** Bruno Siciliano,Oussama Khatib,2008-05-20 With the science of robotics undergoing a major transformation just now Springer's new authoritative handbook on the subject couldn't have come at a better time Having broken free from its origins in industry robotics has been rapidly expanding into the challenging terrain of unstructured environments Unlike other handbooks that focus on industrial applications the Springer Handbook of Robotics incorporates these new developments Just like all Springer Handbooks it is utterly comprehensive edited by internationally renowned experts and replete with contributions from leading researchers from around the world The handbook is an ideal resource for robotics experts but also for people new to this expanding field

**Object Categorization** Sven J. Dickinson,2009-09-07 This edited

volume presents a unique multidisciplinary perspective on the problem of visual object categorization The result of a series of four highly successful workshops on the topic the book gathers many of the most distinguished researchers from both computer and human vision to reflect on their experience identify open problems and foster a cross disciplinary discussion with the idea that parallel problems and solutions have arisen in both domains Twenty seven of these workshop speakers have contributed chapters including fourteen from computer vision and thirteen from human vision Their contributions range from broad perspectives on the problem to more specific approaches collectively providing important historical context identifying the major challenges and presenting recent research results This multidisciplinary collection is the first of its kind on the topic of object categorization providing an outstanding context for graduate students and researchers in both computer and human vision

**Face, Expression, and Iris Recognition Using Learning-based Approaches** Guodong Guo,2006 **The Integration of Information about Objects Across Eye Movements** Daniel A. Gajewski,2006

**International Encyclopedia of the Social & Behavioral Sciences** Neil J. Smelser,Paul B. Baltes,2001 The largest work ever published in the social and behavioural sciences It contains 4000 signed articles 15 million words of text 90 000 bibliographic references and 150 biographical entries

**Exploring Brain Functions** T. A. Poggio,D. A. Glaser,1993-04-27

Exploring Brain Functions Models in Neuroscience Edited by T A Poggio and D A Glaser This volume consists of the background papers and reports of discussion from the Dahlem Workshop It focuses on the identification of appropriate models for brain functions and ways of evaluating them A unique combination of key researchers involved in theoretical and experimental neurobiology addressed these issues from the following perspectives Molecular and biophysical mechanisms of information processing Forms and mechanisms of learning Models of visual perception case studies in brain functions and Architectures of intelligent systems This book provides a timely assessment of the state of theories involving the brain and their role in neuroscience today and tomorrow from the point of view of theoreticians and experimentalists alike

**Neural Computation** ,2006 **The Quarterly Journal of Experimental Psychology** ,2002

**Localization of Clinical Syndromes in Neuropsychology and Neuroscience** Joseph M. Tonkonogy, Antonio E. Puente,2009-01-23 Localization refers to the relationship between the anatomical structures of the brain and their corresponding psychological or behavioral functions

Throughout the history of neuropsychology there has been considerable debate over how localized mental functions truly are. By the mid 20th century a formidable amount of evidence strongly supported the modularity hypothesis that psychological functions such as language and memory reside in specific neuroanatomical areas. Recent neuroimaging studies suggest a more holistic view that psychological functions are distributed and dynamically organized across multiple brain regions. This book attempts to reconcile the classic and modern approaches, arguing that newer imaging techniques must be used in conjunction with rather than replace traditional neuropsychology approaches such as interviewing, testing and autopsy exams. Only by triangulating these approaches can neuropsychologists begin to understand the complex relationship between brain structure and mental function that is exhibited across the spectrum of neurological disorders. The perspective offered by Drs Tonkonogy and Puente on this philosophical and scientific debate is a provocative counterargument to current research that overemphasizes imaging studies to the exclusion of other useful techniques. Key features: Offers systematic descriptions of the clinical manifestations, anatomical data and history of the various approaches to neuropsychological syndromes. Differentiates syndromes characterized by disturbances of conventional versus unconventional information processing. Examines both traditional and modern approaches to new neuropsychological syndromes of social agnosia, social apraxia and agnosia of actions as well as memory disorders, visual disorders and more. An indispensable resource for clinicians and researchers in neuropsychology and neuroscience, this book serves as a solid frame of reference for the localization of clinical neuropsychological symptoms.

**Abstracts of the ... Annual Meeting of the European Neuroscience Association ... and ... Annual Meeting of the European Brain and Behaviour Society** European Neuroscience Association.

Meeting, 1994   Perception, 2007   Encyclopedia of Cognitive Science: Similarity Lynn Nadel, 2003 At the core of this encyclopedia are approximately 700 original signed articles written and peer reviewed by the world's leading experts in their various specialized areas of the cognitive sciences.

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