

Computers in Biology and Medicine
Series Editor: George P. Moore

Computer Analysis of Neuronal Structures

Edited by
Robert D. Lindsay



Computer Analysis Of Neuronal Structures

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Computer Analysis Of Neuronal Structures:

Computer Analysis of Neuronal Structures Robert Lindsay, 2012-12-06 It seems particularly appropriate that this pioneering collection of papers should be dedicated to Donald Sholl since those of us who count measure and reconstruct elements of the neural ensemble are all very much in his debt Sholl was certainly not the first to attempt quantification of certain aspects of brain structure No computers were available to him for the kind of answers he sought and some of his answers or rather his interpretations may not stand the test of time But we remember him because of the questions he asked and for the reasons he asked them At a time when the entire family of Golgi techniques was in almost total eclipse he had the judgment to rely on them And in a period when the canonical neuron was a perfect sphere the enormous dendritic superstructure being almost forgotten he was one of a very few who looked to dendrite extension and pattern as a prime clue to the overall problem of neuronal connectivity

Computer Analysis of Neuronal Structure, 1973

Three-dimensional Neuroimaging Arthur W. Toga, 1990 *The Neurosciences*, 1979 *The Microcomputer in Cell and Neurobiology Research* R. Ranney Mize, 1985 *Intrinsic Determinants of Neuronal Form and Function* Raymond J. Lasek, Mark M. Black, 1988 *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants, 1970

An Introduction to Computer Applications in Medicine N. F. Kember, 1982 *Research Awards Index*,

Automated Reconstruction of Neural Elements from Transmission Electron Microscope Images Kevin Montgomery, 1996

Proceedings of the Eighteenth Annual Rocky Mountain Bioengineering Symposium and the Eighteenth International ISA Biomedical Sciences Instrumentation Symposium Held April 20-21, 1981, University of Wyoming, Laramie, Wyoming Instrument Society of America, 1981 *Quantitative Methods in Neuroanatomy* Michael G. Stewart, 1992-06-16 A comprehensive and up to date reference that deals with methods of evaluation of structure and function of the nervous system both in vitro and in vivo Part I considers in vitro and ex vivo applications beginning with the fundamentals of the autoradiographic technique followed by autoradiography and image analysis Part II discusses several of the latest methods used in evaluating cerebral structure and function in vivo and recent advances in PET magnetic resonance imaging and biomagnetism Part III examines applications for quantification of the components of neurons and synapses and considers two and three dimensional methods of neuronal reconstruction Also features the latest advances in stereology *Monographic Series* Library of Congress, 1977

Developments in Neural Networks and Evolutionary Computing for Civil and Structural Engineering B. H. V. Topping, 1995

Includes a selection of papers presented at the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held at Cambridge England 28-30 August 1995 *Annual Report* University of California, Los Angeles. Brain Research Institute, 1978 **The Scientific**

DataLink Index to Artificial Intelligence Research, 1954-1984, 1985 *The Scientific DataLink index to artificial intelligence research* Scientific DataLink (New York, N.Y.), 1985 **Neuroanatomical Research Techniques** Richard T.

Robertson, 1978 *Neuroanatomical Research Techniques* discusses developments in major neuroanatomical research techniques. The book is organized into four parts. Part I deals generally with the preparation and study of brain tissue. It includes a chapter on the microscope discussing optical magnification, limitations of microscopy, and optical contrasting methods. Other chapters summarize basic techniques for tissue preparation and sectioning, present guidelines for a number of standard but essential staining procedures, and present sophisticated and contemporary computer techniques that are proving to be in

Golgi Centennial Symposium Maurizio Santini, 1975 **The Artificial Intelligence Compendium**, 1988

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