THE COMPUTATIONAL **BRAIN** Patricia S. Churchland Terrence J. Sejnowski

The Computational Brain

Computational Neuroscience

Terrence J. Sejnowski and Tomaso A. Poggio, editors

Methods in Neuronal Modeling: From Synapses to Networks, edited by Christof Koch and Idan Segev, 1989

Neural Nets in Electric Fish, Walter Heiligenberg, 1991

The Computational Brain, Patricia S. Churchland and Terrence J. Sejnowski, 1992

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Patricia S. Churchland and Terrence J. Sejnowski

A Bradford Book The MIT Press Cambridge, Massachusetts London, England Second printing, 1993

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This book was set in Palatino by Asco Trade Typesetting Ltd., Hong Kong and was printed and bound in the United States of America.

Library of Congress Cataloging-in-Publication Data

Churchland, Patricia Smith.

The computational brain / Patricia S. Churchland and Terrence J. Sejnowski.

p. cm.

"A Bradford book."

Includes bibliographical references and index.

ISBN 0-262-03188-4

- 1. Brain—Computer simulation. 2. Neural networks (Computer science) 3. Neural circuitry.
- I. Sejnowski, Terrence J. (Terrence Joseph) II. Title.

[DNLM: 1. Brain—physiology. 2. Computer Simulation. 3. Models, Neurological.

4. Neurosciences—methods. WL 26.5 C563cl

QP356.C48 1992

612.8'2'0113-dc20

DNLM/DLC

for Library of Congress

91-28056

CIP

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"The Computational Brain documents a revolution now occurring in the neurosciences. For the past two centuries, the mainstream approach to brain and behavior has been biomedical, usurped from philosophers first by nineteenth-century neurologists, then by psychiatrists and behavioral psychologists, and now by neuropharmacologists and by cell and molecular biologists. Since the publication of Rumelhart and McClelland's Parallel Distributed Processing in 1986, the current is slowly turning back to epistemologists whose central paradigm is communications and information processing. The Computational Brain presents contemporary neuroscience panoramically from this revolutionary point of view. It is essential reading for anyone interested in neuroscience, which has been called the last frontier of biology, not only because it explains the relevance of computation to neurobiology with extraordinary clarity, but also because the book shows unambiguously that both frontier and center are moving." -James H. Schwartz, M.D., Center for Neurobiology and Behavior, Columbia University

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The MIT Press Massachusetts Institute of Technology Cambridge, Massachusetts 02142

