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***Explorations
Of Mind***

It has been 15
years since
the original
publication of
Neuropsycholog
y of

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Attention. At the time of its publication, attention was a construct that had long been of theoretical interest in the field of psychology and

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was receiving increased research by cognitive scientists. Yet, attention was typically viewed as a nuisance variable; a factor that needed to be

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accounted for
when assessing
brain

function, but
of limited
importance in
its own right.

There is a
need for a new
edition of
this book
within Neurops

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Psychology to present an updated and integrated review of what is known about attention, the disorders that affect it, and approaches to its clinical assessment and

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treatment.

Such a book

will provide

perspectives

for

experimental n

europsychologi

cal study of

attention and

also provide

clinicians

with insights

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on how to
approach this
neuropsycholog
ical domain.

In this
groundbreaking
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ocker-turned-n
euroscientist
Daniel J.
Levitin

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explores the

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between

music—its

performance,

its

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to it, why we

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the human

brain. Taking

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on prominent
thinkers who
argue that
music is
nothing more
than an
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Levitin poses
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perhaps even
more so than
language.

Drawing on the
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research and
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examples
ranging from

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reveals: • How
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produce some
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music by
exploiting the
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make sense of
the world •

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Why we are so emotionally attached to the music we listened to as teenagers, whether it was Fleetwood Mac, U2, or Dr. Dre

- That practice, rather than

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talent, is the driving force behind musical expertise •

How those insidious

little jingles (called

earworms) get stuck in our

head A Los

Angeles Times

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finalist, This
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on Music will
attract
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Oliver Sacks
and David
Byrne, as it
is an
unprecedented,
eye-opening

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into an
obsession at
the heart of
human nature.
The Handbook
of Neurolingui
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resource book;
it describes

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research and

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provides an excellent overview of the field of neurolinguistics and its development. The book is organized into five parts covering the history of neu

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discuss all

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aspects of the

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included are the relatively new and fast developing areas of research in discourse, pragmatics, and recent neuroimaging techniques. The resources

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and modern.
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fundamental
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decision
making,
timing, memory
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behavior? This
volume brings
together
leading
cognitive
psychologists
to discuss
these topics
in both
teaching and

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research. This book will be valuable to students and scientists in experimental psychology and cognitive neuroscience.

(Midwest).

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of Michigan,

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a breakthrough

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Mind reflects the
author's evolving

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view of how biology has revolutionized psychiatry and psychology and how potentially could alter modern psychoanalytic thought. The author's unique perspective on both psychoanalysis and biological research

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has led to breakthroughs in our thinking about neurobiology, psychiatry, and psychoanalysis -- all driven by the central idea that a fuller understanding of the biological processes of learning and

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memory can illuminate our understanding of behavior and its disorders. These wonderful essays cover the mechanisms of psychotherapy and medications, showing that both work at the same

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level of neural circuits and synapses, and the implications of neurobiological research for psychotherapy; the ability to detect functional changes in the brain after psychotherapy, which enables us,

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for the first time, to objectively evaluate the effects of psychotherapy on individual patients; the need for animal models of mental disorders; for example, learned fear, to show how molecules and cellular

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mechanisms for learning and memory can be combined in various ways to produce a range of adaptive and maladaptive behaviors; the unification of behavioral psychology, cognitive

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psychology,

neuroscience, and

molecular biology

into the new science

of the mind, charted

in two seminal

reports on

neurobiology and

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given in 1983 and

2000; the critical

role of synapses and

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synaptic strength in both short- and long-term learning; the biological and social implications of the mapping of the human genome for medicine in general and for psychiatry and mental health in particular; The author concludes by

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calling for a revolution in psychiatry, one that can use the power of biology and cognitive psychology to treat the many mentally ill persons who do not benefit from drug therapy.

Fascinating reading

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for psychiatrists,
psychoanalysts,
social workers,
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trainees in
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Psychoanalysis, and
the New Biology of
Mind records with
elegant precision

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the monumental changes taking place in psychiatric thinking. It is an invaluable reference work and a treasured resource for thinking about the future.

Paying attention is something we are all familiar with and

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often take for granted, yet the nature of the operations involved in paying attention is one of the most profound mysteries of the brain. This book contains a rich, interdisciplinary collection of articles

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by some of the pioneers of contemporary research on attention. Central themes include how attention is moved within the visual field; attention's role during visual search, and the inhibition of these

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search processes;
how attentional
processing changes
as continued
practice leads to
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performance; how
visual and auditory
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processing may be
linked; and recent
advances in

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functional neuro-
imaging and how

they have been used
to study the brain's
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The relationship between brain and mind is one of the most baffling problems in science but potentially one of the most interesting. First published in 1985,

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Examples are given of the way in which the brain may use this increased capacity to represent both the physical and social worlds, and the authors suggest that this type of mental activity might underly what

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human beings

recognize in

themselves as

'awareness' or

'consciousness'.

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brings together

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research and

provides a useful

framework for the

study of this

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increasingly
important subject.

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experts in a wide
range of disciplines
and draw their
conclusions from a
broad base of
clinical and
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evidence. Students
of psychology,

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zoology, anatomy,
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medicine and

philosophy, as well
as anyone who has
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study of brain and

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combines two

disciplines --

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neuroscience, the study of brain function, and human factors, the study of how to match technology with the capabilities and limitations of people so they can work effectively and safely. The goal of merging these two fields is to use the startling discoveries

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*of human brain and
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*functioning both to
inform the design of
technologies in the
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and to provide new
training methods
that enhance
performance, expand
capabilities, and
optimize the fit
between people and
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*in the area of
neuroergonomics has
blossomed in recent
years with the
emergence of
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monitoring human
brain function that
can be used to study
various aspects of
human behavior in
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have a better
understanding of
microstructures, for
example subatomic
spheres in physics
and genetic
structures in*

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biochemistry. This book is set to convey an overview of the history, methods, findings and theoretical accounts of microgenetic research in consciousness and experimental psychology. The reader will find information about how conscious

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percepts unfold within only a fraction of a second. In a sense, and according to the microgenetic hypothesis, our subjectively experienced perceptual image undergoes formation similar to the process of developing a photograph. Yet the time scale of the

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*awareness-related
perceptual
development is much
finer and therefore
accessible only to
observation armed
with special
experimental
procedures that are
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to which all others

are compared. First

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Seventh Edition, the

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been considered the definitive guide to the field of developmental science. Volume 1, Theory and Method, presents a rich mix of classic and contemporary theoretical perspectives, but the dominant views throughout are marked by an

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emphasis on the dynamic interplay of all facets of the developmental system across the life span, incorporating the range of biological, cognitive, emotional, social, cultural, and ecological levels of analysis. Examples of the theoretical approaches

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*the volume are
presented.*

*Understand the
contributions of
biology, person, and
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relations among
individual, the social
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*individuals living
within diverse
contexts.*

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and refrain from evicting her from our hive. But does the occurrence of unintelligent behavior suffice to demonstrate the total absence of mental experience under any circumstances? Ethologists from some distant

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galaxy could easily discern ex amples of stupid and maladaptive behavior in our own species. But do instances of human stupidity prove that none of us is ever consciously aware of what he is dOing? No

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available evidence
compels us to
believe that
insects, or any
other animals,
experience any
sort of
consciousness, or
intentionally plan
any of their
behavior. But
neither are we
compelled to

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believe the contrary. In areas where data are few and of limited relevance, dogmatic negativity can easily limit what scientists even try to investigate, and thus perhaps delay or prevent important insights and discoveries.

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Many of the participants agreed that a good starting point would be to consider what we know of our own thinking, subjective feelings, and consciousness, and then move on to inquire whether other species

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experience

anything similar.

Such an approach

was once

considered

fallaciously

anthropomorphic.

But it seems now

to be widely if not

universally

recognized that

this is a serious

objection only if

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one has already assumed in advance that conscious thinking is uniquely human, and the accusation of anthropomorphism is then merely a reiteration of the prior conviction.

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processing. The
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correspond to the
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being--from the
senses, through
the brain, to
action--rather than
from the

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human

performance, and

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this book, readers

should be able to:

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human ability

contributes to the

design of

technology. *

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show how
theoretical

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advances have
been, or might be,
applied to
improving human-
machine
interaction

Cognitive science
arose in the 1950s
when it became
apparent that a
number of
disciplines,
including

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psychology,
computer science,
linguistics, and
philosophy, were
fragmenting.

Perhaps owing to
the field's
immediate origins
in cybernetics, as
well as to the
foundational
assumption that
cognition is

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information

processing,

cognitive science

initially seemed

more unified than

psychology.

However, as a

result of differing

interpretations of

the foundational

dramatically

divergent views of

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the meaning of the term information processing, three separate schools emerged: classical cognitive science, connectionist cognitive science, and embodied cognitive science. Examples, cases, and research findings taken

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from the wide

range of

phenomena

studied by

cognitive

scientists

effectively explain

and explore the

relationship

among the three

perspectives.

Intended to

introduce both

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graduate and
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students to the
foundations of
cognitive science,
Mind, Body, World
addresses a
number of
questions
currently being
asked by those
practicing in the

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field: What are the core assumptions of the three different schools? What are the relationships between these different sets of core assumptions? Is there only one cognitive science, or are there many

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different cognitive sciences? Giving the schools equal treatment and displaying a broad and deep understanding of the field, Dawson highlights the fundamental tensions and lines of fragmentation that exist among

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the schools and

provides a

refreshing and

unifying

framework for

students of

cognitive

science. Michael R.

W. Dawson is a

professor of

psychology at the

University of

Alberta. He is the

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author of

numerous

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undergraduates
studying cognition.**

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providing a series of
articles which
emphasize particularly
what we do not
understand, rather
than what we think we**

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do. It considers a selection of problems and phenomena that remain mysterious despite years, decades or centuries of enquiry, and evaluates different approaches to these problems.; The topics discussed range from specific optical illusions to the nature of consciousness. Some of

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these unsolved problems provide a vehicle for reviewing different paradigms and shifts in the field over the 20th century. Each chapter also poses some of the remaining unanswered questions, suggesting directions for future enquiry.

To understand the mind, we need to draw

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Mind

equally on the fields of cognitive science and neuroscience. But these two fields have very separate intellectual roots, and very different styles. So how can these two be reconciled in order to develop a full understanding of the mind and brain. This is the focus of this landmark new book.

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This volume is based on contributions to the second Brain Dynamics Conference, held in Berlin on August 10-14, 1987, as a satellite conference of the Budapest Congress of the International Brain Research Organization. Like the volume resulting from the first conference,

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**Dynamics of Sensory
and Cognitive**

Processing by the

Brain, the present

work covers new

approaches to brain

function, with

emphasis on

electromagnetic fields,

EEG, event-related

potentials,

connectivistic views,

and neural networks.

Close attention is also

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paid to research in the emerging field of deterministic chaos and strange attractors. The diversity of this collection of papers reflects a multipronged advance in a hitherto relatively neglected domain, i. e., the study of signs of dynamic processes in organized neural tissue in order both to

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**explain them and to
exploit them for clues
to system function.**

**The need is greater
than ever for new
windows. This volume
reflects a historical
moment, the moment
when a relatively
neglected field of basic
research into available
signs of dynamic
processes ongoing in
organized neural**

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tissue is expanding almost explosively to complement other approaches. From the topics treated, this book should appeal, as did its predecessor, to neuroscientists, neurologists, scientists studying complex systems, artificial intelligence, and neural networks, psychobiologists, and

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Mind

**all basic and clinical
investigators**

**concerned with new
techniques of
monitoring and
analyzing the brain's
electromagnetic
activity.**

**Of the myriad tasks
that the brain has to
perform, perhaps none
is as crucial to the
performance of other
tasks as attention. A**

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central thesis of this book on the cognitive neuroscience of attention is that attention is not a single entity, but a finite set of brain processes that interact mutually and with other brain processes in the performance of perceptual, cognitive, and motor skills. After an introductory part I,

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the book consists of three parts. Part II, Methods, describes the major neuroscience methods, including techniques used only with animals (anatomical tract tracing, single-unit electrophysiology, neurochemical manipulations), noninvasive human brain-imaging

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techniques (ERPs, positron emission tomography, and functional magnetic resonance imaging), and studies with brain-damaged individuals. This part also includes a chapter on the computational modeling of attention. Part III, Varieties of Attention, looks at three major

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components of attention from the cognitive neuroscience perspective: selection, vigilance, and control. It also discusses links to memory and language. Finally, part IV, Development and Pathologies, discusses the application of findings from the previous sections to the analysis of normal

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and abnormal

development and to

pathologies of

attention such as

schizophrenia and

attention deficit

disorders.

Contributors Edward

Awh, Gordon C.

Baylis, Jochen Braun,

Dennis Cantwell,

Vincent P. Clark,

Maurizio Corbetta,

Susan M. Courtney,

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**Francis Crinella,
Matthew C. Davidson,**

Gregory J.

DiGirolamo, Jon

Driver, Jane Emerson,

Pauline Filipek, Ira

Fischler, Massimo

Girelli, Pamela M.

Greenwood, James V.

Haxby, Mark H.

Johnson, John

Jonides, Julian S.

Joseph, Robert T.

Knight, Christof Koch,

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Nestor, Ernst Niebur,
Brian F. O'Donnell,
Raja Parasuraman,
Michael I. Posner,
Robert D. Rafal,
Trevor W. Robbins,
Lynn C. Robertson,
Judi E. See, James
Swanson, Diane Swick,**

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**Don Tucker, Leslie G.
Ungerleider, Joel S.**

Warm, Maree J.

Webster, Sharon

Wigal

The Science of a

Human Obsession

Creating Brain-Like

Intelligence

Report of the Dahlem

Workshop on Animal

Mind — Human

Mind, Berlin 1981,

March 22–27

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Orienting of Attention

Brain Dynamics

Mind and Brain

Language, Brain, and

Cognitive

Development

The psychology of reading investigates the process by which readers extract visual information from written text and make sense of it. Psychology

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Explorations Of

Mind

Library Editions:

*Psychology of Reading
(11 Volumes) brings
together as one set, or
individual volumes, a
small series of
previously out-of-print
titles, originally
published between
1980 and 1995. The
set includes topics such
as dyslexia and the
relationship between*

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Explorations Of

speech and reading.

The International Sympo

sium Creating Brain-Lik

e Intelligence was held in

Feb- ary 2007 in

Germany. The

symposium brought

together notable

scientists from di?erent

backgrounds and with

di?erent expertise

related to the emerging

?eld of brain-like

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intelligence. Our understanding of the principles behind brain-like intelligence is still limited. After all, we have had to acknowledge that after tremendous advances in areas like neural networks, computational and arti?cial intelligence (a ?eld that had just

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celebrated its 50 year anniversary) and fuzzy

systems, we are still not

able to mimic even the

lower-level sensory

capabilities of humans

or animals. We asked

what the biggest

obstacles are and how

we could gain ground

toward a scientific

understanding of the

autonomy, ?exibility,

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*and robustness of
intelligent biological*

systems as they strive to

survive. New principles

are usually found at

the interfaces between

existing disciplines, and

traditional boundaries

between disciplines

have to be broken

down to see how

complex systems

become simple and

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Mind

how the puzzle can be assembled. During the symposium we could identify some recurring themes that pervaded many of the talks and discussions. The triad of structure, dynamics and environment, the role of the environment as an active partner in shaping systems, adaptivity on all scales (learning,

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development,

evolution) and the

amalgamation of an

internal and external

world in brain-like

intelligence rate high

among them. Each of

us is rooted in a certain

community which we

have to serve with the

results of our research.

Looking beyond our

?elds and working at

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the interfaces between

established areas of

research requires effort

and an active process.

A readable synthesis of

a decade's work in

neurobiology, artificial

intelligence, cognitive

science, and medicine

provides a fascinating

update on the latest

developments in the

study of the structure

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*and function of the
mind and brain.*

15,000 first printing.

*This volume provides,
for the first time,
multidisciplinary
perspectives on the
problem of awareness
of deficits following
brain injury. Such
deficits may involve
perception, attention,
memory, language, or*

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Explorations Of
*motor functions, and
they can seriously*

*disrupt an individual's
ability to function.*

*However, some brain-
damaged patients are
entirely unaware of the
existence or severity of
their deficits, even
when they are easily
noticed by others. In
addressing these topics,
contributors cover the*

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*entire range of
neuropsychological*

syndromes in which

problems with

awareness of deficit

are observed:

hemiplegia and

hemianopia, amnesia,

aphasia, traumatic

head injury, dementia,

and others. On the

clinical side, leading

researchers delineate

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the implications of awareness of deficits for rehabilitation and patient management, and the role of defense mechanisms such as denial. Theoretical discussions focus on the importance of awareness disturbances for better understanding such cognitive processes as

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attention,

Mind.

consciousness, and

monitoring.

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Explorations of Mind

From Basic Principles

to Complex Intelligent

Systems

The Overflowing Brain

Speech and Reading

Basic Science

Information Overload

and the Limits of

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Working Memory

Cognition, Stress and

Individual Differences

Until recent

advents in

neuroimaging,

the brain had

been inaccessible

to in vivo

visualization,

short of

neurosurgical

procedures or

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some unfortunate
traumatic

exposure. It is a
tribute to the
early contributors
to clinical
neuroscience that
through what, by
today's
standards, would
be deemed
extremely crude
measurements,

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advancements in understanding brain function were made. For example, the theories of higher cortical functions of the brain by Aleksandr Luria or Hans-Lukas Teuber in the 1950s were essentially based

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on military
subjects who
sustained
traumatic head
wounds during
World War II.

These
researchers could
inspect the
patient and
determine where
penetrating
entrance and exit

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wounds were on
the head;

sometimes they
had skull films to
identify entrance
and exit fracture
wounds,

sometimes
neurosurgical
reports were
available, and
Luria even had
the opportunity to

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acutely examine

some patients

with exposed

wounds. Thus,

one would take

whatever

information might

be available and

infer what regions

of the brain were

involved but

could never

actually visualize

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the brain. Of course, this changed dramatically with the introduction of brain imaging in the 1970s, but it really was not until the 1990s that analysis and image display technologies finally caught up

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with the basic
brain-imaging
methods of
computerized
tomography (CT)
and magnetic
resonance
imaging (MRI).

Originally
published in
1995, this
collection of
papers introduced

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a new dimension
to the
understanding of
reading by
focusing on the
relation between
spoken and
written language
processing. New
perspectives on
speech and
reading are
introduced by

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highlighting aspects of the two linguistic skills that had received little attention in the past. The comparative perspective adopted in this collection presents an innovative focus

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on speech and
the acquisition of
alphabetic
reading skill.

Major new
sources of
evidence are
discussed, like
reading in
nonconventional
input modalities,
braille reading,
and speech

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Mind

processing in lip-
reading.

Contributors also
discuss the
reading process
in non-alphabetic
orthographies
and the specifics
of the reading
acquisition
problem in
logographic or
mixed writing

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systems (like Chinese and Japanese) and their relations to underlying speech representations. A central concern of all chapters is the role of phonological processes in different

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modalities and writings systems, and at different stages in the reading acquisition process. Drawing on expertise of the contributors, the book presents a novel and varied view of the achievements,

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the promises and
the challenges
facing the
researcher once
the intimate link
between speech
and reading
comes to the
foreground.

This book is a
succinct
introduction to
the orienting of

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attention. Richard

Wright and

Lawrence Ward

describe the

covert orienting

literature clearly

and concisely,

illustrating it with

numerous high-

quality images,

specifically

designed to make

the challenging

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theoretical
concepts very
accessible. The
book begins with
an historical
introduction that
provides a great
deal of
information about
orienting, much
of which will be
new even to
seasoned

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researchers.

Mind

Wright and Ward

then

systematically

describe the

development of

various

experimental

paradigms that

have been

devised to study

covert orienting,

and the

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theoretical issues raised by this research. One trend that they analyze in detail is the progression from relatively simple models of spatial attention (attention spotlight and zoom lens models) to an

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integrative

computational

framework based

on a concept

called the

"activity

distribution."

They also present

a comprehensive

survey of

cognitive

neuroscience

research on the

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brain

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mechanisms

underlying spatial

attention shifts,

as well as a

chapter

summarizing

recent research

on crossmodal

attention shifts,

and elucidating

the links between

attention

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orienting in the
visual, auditory,
and tactile
domains. In the
Epilogue they
offer a concise
summary of the
book, and
develop
preliminary
frameworks for
understanding
the relationship

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between spatial
attention and
orienting in
response to social
cues (social
cognitive
neuroscience)
and for describing
the evolution of
covert orienting.
Orienting of
Attention
provides a

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systematic survey

that is ideal for those looking for an accessible introduction to the field and also for students and researchers who want a state-of-the-art overview.

Shaping

Psychology is a unique collection

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of in-depth
conversations
with a selection of
the most
influential
psychologists
working today,
conducted at the
end of a decade
that shook
psychological
science. They
provide insights

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into the controversies at the heart of contemporary psychology, revealing a clash of visions of what psychological science is all about and what its future holds. They are candid on the crisis in

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psychology and

explore its

causes,

consequences

and how to

overcome it. They

also discuss

challenges in the

field, their

careers, and the

experiences that

shaped their

worldview. Those

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interviewed

include pioneers who have shaped psychology as we know it today and who represent a wide range of specializations, from research to mental health practice, mainstream psychology to

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critical

Mind

psychology and
neuroscience to
the Open Science
movement.

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Loftus, Stanford
University, USA

Jerome Kagan,
Harvard

University, USA

Michael I. Posner,
University of

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Oregon, USA

Scott O.

Lilienfeld, Emory

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Robert Plomin,

King's College

London, UK Susan

J. Blackmore,

University of
Plymouth, UK

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New York

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Noam Chomsky,

Massachusetts

Institute of

Technology, USA

Roy F.

Baumeister,

University of

Queensland,

Australia Erica

Burman,

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University of
Manchester, UK

Brian A. Nosek,
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Virginia, USA

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School, USA

Daniel
Kahneman,
Princeton
University, USA

Carol A. Tavris,

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independent

academic, USA,

Visual Attention

Psychology

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Reading

Mind, Body, World

Neuroimaging I

Animal Mind —

Human Mind

Awareness of

Deficit after Brain

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Injury

Mind

Handbook of

Child Psychology

and

Developmental

Science, Theory

and Method

As the pace of

technological

change

accelerates,

we are

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increasingly
experiencing a
state of
information
overload. In
The
Overflowing
Brain,
cognitive
scientist
Torkel
Klingberg

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takes us on a journey into the limits and possibilities of the brain. He suggests that we should acknowledge and embrace our desire for information and mental

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challenges,
but try to
find a balance
between demand
and capacity.
The search for
mind-brain
relationships,
with a
particular
emphasis on
distinguishing

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hyperbole from

solid

empirical

results in

brain imaging

studies.

Cognitive

neuroscience

explores the

relationship

between our

minds and our

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brains, most recently by drawing on brain imaging techniques to align neural mechanisms with

psychological processes. In Mind and Brain, William

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Uttal offers a critical review of cognitive neuroscience, examining both its history and modern developments in the field.

He pays particular

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attention to
the role of
brain imaging--
-especially
functional
magnetic
resonance
imaging
(fMRI)--in
studying the
mind-brain
relationship.

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He argues
that, despite
the explosive
growth of this
new mode of
research,
there has been
more hyperbole
than critical
analysis of
what
experimental

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outcomes

really mean.

With Mind and

Brain, Uttal

attempts a

synoptic

synthesis of

this

substantial

body of

scientific

literature.

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considers

psychological

and behavioral

concerns that

can help guide

the neuroscien

tific

discussion;

work done

before the

advent of

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imaging

systems; and

what brain

imaging has

brought to

recent

research.

Cognitive

neuroscience,

Uttal argues,

is truly both

cognitive and

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neuroscientific

c. Both

approaches are

necessary and

neither is

sufficient to

make sense of

the greatest

scientific

issue of all:

how the brain

makes the

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mind.
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The
contributions
to this
collection
assess the
progress of
cognitive
science. The
questions
addressed
include: What

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have we
learned or not
learned about
language,
brain, and
cognition?
Where are we
now? Where
have we
failed? Where
have we
succeeded?

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Professor
Posner
describes a
unified
experimental
approach to
the study of
the mind based
on experiments
concerning the
time course of
human

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Drawing
systematically
on studies of
performance,
subjective
experience,
and brain
processes, he
develops
relationships

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between

cognitive

psychology and

neuroscience.

Neuroergonomic

S

Shaping

Psychology

Progress and

Perspectives

The Matter of

the Mind

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Jacques Mehler

Handbook of Ne

urolinguistics

A Comparative

Approach

The aim of the

European

Cognitive Science

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presentation of

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empirical,
theoretical, and
analytic work from
all areas of
interest in
cognitive science,
such as artificial
intelligence,
education,
linguistics,
neuroscience,
philosophy,

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psychology, and anthropology. The focus is on interdisciplinary work that is either of interest for more than one of the research areas mentioned or integrates research methods from different

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fields. With contributions by cognitive scientists from 20 different countries, the papers in this volume reflect the origins of this conference, as well as its international scope.

Gualtiero Piccinini

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presents a
systematic and
rigorous

philosophical
defence of the
computational
theory of

cognition. His view
posits that
cognition involves
neural

computation

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within multilevel

neurocognitive

mechanisms, and

includes novel

ideas about

ontology,

functions, neural

representation,

neural

computation, and

consciousness.

Graphs have

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become a fixture of everyday life, used in scientific and business publications, in magazines and newspapers, on television, on billboards, and even on cereal boxes.

Nonetheless,

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surprisingly few
Mind
graphs

communicate

effectively, and

most graphs fail

because they do

not take into

account the goals,

needs, and abilities

of the viewers. In

raph Design for

Eye and Mind,

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Stephen Kosslyn addresses these problems by presenting eight psychological principles for constructing effective graphs. Each principle is solidly rooted both in the scientific literature on how

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we perceive and

comprehend

graphs and in

general facts

about how our

eyes and brains

process visual

information. Graph

Design for Eye and

Mind is an

invaluable

reference for

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anyone who uses
visual displays to
convey

information in the
sciences,

humanities, and

businesses such as
finance,

marketing, and
advertising.

"The

Computational

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Brain addresses a broad audience: neuroscientists, computer scientists, cognitive scientists, and philosophers. It is written for both the expert and novice. A basic overview of

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neuroscience and

Mind
computational

theory is provided,

followed by a

study of some of

the most recent

and sophisticated

modeling work in

the context of

relevant

neurobiological

research.

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Mind

Technical terms are clearly explained in the text, and definitions are provided in an extensive glossary. The appendix contains a précis of neurobiological techniques."--Jackett.

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The Organisation
of Mind

11 Volume Set

Time

Attention and

Brain Function

The Attentive

Brain

The

Computational

Brain

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the Eye and Mind

Human

Performance

provides the

student and

researcher

with a

comprehensive

and accessible

review of

performance,

in the real

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world and

essential

cognitive

science

theory. Four

main sections

cover both

theoretical

and practical

issues:

Section One

outlines the

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perspectives
on performance

offered by

contemporary

cognitive

science,

including

information

processing and

neuroscience

perspectives.

Section Two

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presents a multi-level view of the performer as biological organism, information-processor and intentional agent. It reviews the development of

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the cognitive

theory of

performance

through

experimental

studies and

also looks at

practical

issues such as

human error.

Section Three

reviews the

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impact of
stress factors
such as noise,
fatigue and
illness on
performance.
Section Four
assesses
individual and
group
differences in
performance

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with accounts

of ability,

personality

and aging.

Originally

published in

1992, this

book presents

original psych

ophysiological

research based

on

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computerized
techniques of
recording and
evaluating
event-related
brain
potentials.

The

application of
multichannel m
agnetoencephal
ography

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greatly
contributes to
exact
localization
of
corresponding
neuronal
generators
responsible
for attention.
The book
contains a

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bulk of
information
concerning
data obtained
by cognitive
psychology in
the area of
study of
attention.
These results
are closely
linked with ne

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urophysiologic
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a hot topic of
intelligence
science. It is
explored by
computing to
explain the

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theoretical
basis of human
intelligence.

Through long-
term research,
a mind model

CAM

(Consciousness
and Memory) is
proposed,
which provides
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framework for
brain-like
intelligence
and brain-like
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systems. This
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CAM,
systematically
discusses the

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theoretical
basis of mind
computation in
nine chapters.
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advanced
progresses on
brain-like
intelligence,
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