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Manifesto

In the early

days of

artificial

intelligence it

was widely

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believed that
powerful
computers
would, in the
future, enable
mankind to
solve many real-
world problems
through the use
of very general
inference
procedures and
very little

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domain-specific knowledge. With the benefit of hindsight, this view can now be called quite naive. The field of expert systems, which developed during the early 1970s, embraced the

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paradigm that
Knowledge is
Power - even
very fast
computers
require very
large amounts
of very
specific
knowledge to
solve non-
trivial
problems. Thus,

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the field of
large knowledge
bases has
emerged.

Knowledge
Management has
evolved into
one of the most
important
streams of
management
research,
affecting

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organizations
of all types at
many different
levels. The
Encyclopedia of
Knowledge
Management,
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provides a
compendium of
terms,
definitions and
explanations of

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concepts,
processes and
acronyms

addressing the
challenges of
knowledge
management.

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covers all
aspects of this
critical
discipline,

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which range
from knowledge
identification
and
representation,
to the impact
of Knowledge
Management
Systems on
organizational
culture, to the
significant
integration and

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cost issues

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being faced by

Human

Resources,

MIS/IT, and

production

departments.

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in 1994.

Routledge is an

imprint of

Taylor &

Francis, an

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informatics
Physics Manifesto
company.

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Intelligence:
State of the
Art Report is a
two-part report
consisting of
the invited
papers and the
analysis. The
editor first
gives an

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introduction to
the invited

papers before
presenting each
paper and the
analysis, and
then concludes
with the list
of references
related to the
study. The
invited papers
explore the

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various aspects
of artificial
intelligence.

The analysis
part assesses
the major
advances in
artificial
intelligence
and provides a
balanced
analysis of the
state of the

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art in this
field. The
Bibliography
compiles the
most important
published
material on the
subject of
artificial
intelligence
and includes
all the
materials cited

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in the invited
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paper and

analysis

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Physical

Systems

Computers and
the

Comprehension
of Causal

Descriptions

2nd Advanced

Course, ACAI

'87, Oslo,

Norway, July 28

- August 7,

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1987
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Deductive

Reasoning in
Human Thinking
State of the
Art Report 15:3
Third Mexican
International
Conference on
Artificial
Intelligence,
Mexico City,
Mexico, April

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26-30, 2004,
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Proceedings

Microcognition
provides a
clear, readable
guide to
parallel
distributed
processing from
a cognitive
philosopher's
point of view.
Over time the

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field of
artificial
intelligence
has developed
an "agent
perspective"
expanding its
focus from
thought to
action, from
search spaces
to physical
environments,

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and from
problem-solving
to long-term
activity.

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published as a
special double
volume of the
journal
Artificial
Intelligence,
this book
brings together

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fundamental
work by the top
researchers in
artificial
intelligence,
neural
networks,
computer
science,
robotics, and
cognitive
science on the
themes of

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interaction and agency. It identifies recurring themes and outlines a methodology of the concept of "agency." The seventeen contributions cover the construction of

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principled characterizations of interactions between agents and their environments, as well as the use of these characterizations to guide analysis of existing agents and the

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synthesis of
artificial

agents.

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series. Special
Issues of
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Intelligence
This volume
investigates
our ability to
capture, and

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then apply,
expertise. In
recent years,
expertise has
come to be
regarded as an
increasingly
valuable and
surprisingly
elusive
resource.

Experts, who
were the sole

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active
dispensers of
certain kinds
of knowledge in
the days before
AI, have
themselves
become the
objects of
empirical
inquiry, in
which their
knowledge is

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elicited and
studied -- by
knowledge
engineers,
experimental
psychologists,
applied
psychologists,
or other
experts --
involved in the
development of
expert systems.

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advanced
technology for
capturing and
disseminating
the knowledge
and skills of
the best
corporate
managers, the
most seasoned
pilots, and the
most renowned
medical

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diagnosticians.
This book
should be of
interest to
psychologists
as well as to
knowledge
engineers who
are "out in the
trenches"
developing
expert systems,
and anyone

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pondering the
nature of
expertise and
the question of
how it can be
elicited and
studied
scientifically.
The book's
scope and the
pivotal
concepts that
it elucidates

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and appraises,
as well as the
extensive
categorized
bibliographies
it includes,
make this
volume a
landmark in the
field of expert
systems and AI
as well as the
field of

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applied
experimental
psychology.

In this
provocative
book, Lance
Rips describes
a unified
theory of
natural
deductive
reasoning and
fashions a

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working model
of deduction,
with strong
experimental
support, that
is capable of
playing a
central role in
mental
life. Rips
argues that
certain
inference

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principles are
so central to
our notion of
intelligence
and rationality
that they
deserve serious
psychological
investigation
to determine
their role in
individuals'
beliefs and

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conjectures.
Asserting that
cognitive
scientists
should consider
deductive
reasoning as a
basis for
thinking, Rips
develops a
theory of
natural
reasoning

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abilities and shows how it predicts mental successes and failures in a range of cognitive tasks. In parts I and II of the book Rips builds insights from cognitive psychology,

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logic, and
artificial
intelligence
into a unified
theoretical
structure. He
defends the
idea that
deduction
depends on the
ability to
construct
mental proofs -

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actual memory
units that link
given
information to
conclusions it
warrants. From
this base Rips
develops a
computational
model of
deduction based
on two
cognitive

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skills: the ability to make suppositions or assumptions and the ability to posit sub-goals for conclusions. A wide variety of original experiments support this model,

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including
studies of
human subjects
evaluating
logical
arguments as
well as
following and
remembering
proofs. Unlike
previous
theories of
mental proof,

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this one handles names and variables in a general way. This capability enables deduction to play a crucial role in other thought processes, such as classifying

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and problem solving. In part III Rips compares the theory to earlier approaches in psychology which confined the study of deduction to a small group of tasks, and

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examines
whether the
theory is too
rational or too
irrational in
its mode of
thought. Lance
J. Rips is
Professor of
Psychology at
Northwestern
University.

Wonder and

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Computational
Approaches in
Theoretical
Psychology
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and Maladaptive
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Patterns
The Quest for
Artificial

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A Qualitative
Bond Graph
Reasoning
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Proceedings of
the Ninth
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Conference on
Artificial
Intelligence
This book constitutes

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the refereed
proceedings of the
International
Conference on Spatial
Information Theory,
COSIT'95, held near
Vienna, Austria, in
September 1995.
Spatial Information
Theory brings
together three fields
of research of
paramount
importance for

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geographic information systems technology, namely spatial reasoning, representation of space, and human understanding of space. The book contains 36 fully revised papers selected from a total of 78 submissions and gives a comprehensive state-

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of-the-art report on
this exciting

multidisciplinary - and
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- area of research and
development.

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include monographs
and collections of
studies devoted to the
investigation and
exploration of
knowledge,
information, and data

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processing systems of all kinds, no matter whether human, (other) animal, or machine. Its scope is intended to span the full range of interests from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and

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sociobiology
(concerning the
mental capabilities of
other species) to
ideas related to
artificial intelligence
and to computer
science. While
primary emphasis will
be placed upon
theoretical,
conceptual, and
epistemological
aspects of these prob

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lems and domains,
empirical,
experimental, and
methodological
studies will also
appear from time to
time. The perspective
that prevails in
artificial intelligence
today suggests that
the theory of
computability defines
the boundaries of the
nature of thought,

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precisely because all
thinking is

computational. This
paradigm draws its
inspiration from the
symbol-system
hypothesis of Newell
and Simon and finds
its culmination in the
computational
conception of lan
guage and mentality.
The "standard
conception"

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represented by these views is subjected to a thorough and sustained critique in the pages of this book. Employing a distinction between systems for which signs are significant for the users of a system and others for which signs are significant for use by a system, I have

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sought to define the boundaries of what AI, in principle, may be expected to achieve.

Space and time are inextricably linked.

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Qualitative spatial information theory

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encompasses spatial as well as temporal representation and reasoning. Qualitative Spatio-Temporal Representation and Reasoning: Trends and Future Directions is a contribution to the emerging discipline of qualitative spatial information theory within artificial intelligence. This

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philosophy of
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psychology. Bringing

together

internationally

renowned authors,

including Herb Simon,

Karl Pribram, Joseph

Rychlak, Ullin T Place

and Adolf

Gr[um]unbaum, this

volume offers a

stimulating and

informative addition to

contemporary debate.

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With the cognitive revolution of the 1960s, there has been a resurgence of interest in the study of the philosophical assumptions and implications of psychology. Several significant themes, such as the foundations of knowledge, behaviourism,

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rationality, emotion
and cognitive science
span both philosophy
and psychology, and
are covered here
along with a wide
range of issues in the
fields of folk
psychology, clinical
psychology,
neurophysiology and
professional ethics.

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Comprehension in

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Context
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Two Sciences of Mind

Artificial Intelligence

14th International

Joint Conference on

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Adelaide, Australia,

December 10-14,

2001, Proceedings

Readings in Cognitive

Science and

Consciousness

Encyclopedia of

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Management, Second

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Multidimensional

Geographic

Information Science

This text

challenges the

design of

programs that

can read and

reason on the

basis of

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written causal
descriptions

such as those
that appear in
encyclopaedias
and user

manuals and

presents a

theory of

representation

called

"transition

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space",
implemented in
a program
called

"PATHFINDER".

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about the core
knowledge in
fundamental

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of intuitive
theories of
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relations,
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causality,

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techniques for
design, fast
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rendering of
solid models.
The text
focuses on**

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Solid Geometry

(CSG). The

following

topics are

treated in

depth:

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(specification

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solids;

graphical user

interfaces;

procedural

languages and

direct

manipulation)

and display

techniques

(depth-buffer,

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scan-line and
ray-tracing

techniques;

CSG

classification

techniques; ef

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improving

methods;

software and

hardware imple

mentations) .

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significant
contribution

to the

development of

linguistic

theory both in

Germany and in

ternationally.

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will continue

to deliver new

impulses for

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research and
maintain the
central
insight of
linguistics
that progress
can only be
made in
acquiring new
knowledge
about human
languages both

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**synchronically
and**

diachronically

by closely

combining

empirical and

theoretical

analyses. To

this end, we

invite

submission of

high-quality

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studies from

all the

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of general

linguistics

and the

linguistics of

individual

languages

which address

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questions,
discuss new

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theory.

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Parallel**

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IJCAI-85,
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Intelligence**

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Large

Knowledge

Bases

Spatial

Information

Theory

This book

constitutes the

refereed

proceedings of

the 14th

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**Australian Joint
Conference on
Artificial
Intelligence, AI
2001, held in
Adelaide,
Australia, in
December
2001. The 55
revised full
papers presented
together with one**

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**invited
contributions were
carefully
reviewed and
selected from a
total of 100
submissions. The
papers cover the
whole range of
artificial
intelligence from
theoretical and**

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**foundational
issues to
advanced
applications in a
variety of fields.
The Reaching for
Mind workshop,
held at AISB 95,
explicitly
addressed itself
to the current
crisis in**

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Cognitive Science. In

**particular, the
issue of how this
discipline can
address
consciousness
was a leitmotiv in
the workshop.
The conclusion
seems
inescapable that**

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**there is a need
for two sciences
in this area.**

**Cognitive
Science can be
freed to become
a fully-fledged
experimental
epistemology by
the creation of a
science of
consciousness**

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**also
encompassing
subjectivity. This
exciting
collection of
papers indicates
where both these
sciences may be
heading. (Series
B)The
programme
committee of the**

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workshop
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included: Mike

Brady (Oxford);

Daniel Dennett

(Tufts); Jerry

Feldman

(Berkeley); John

Macnamara

(McGill) and

Zenon Pylyshyn

(Rutgers).

Research on

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ontology is becoming increasingly widespread in the computer science community.

While this term has been rather confined to the philosophical sphere in the past, it is now

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**gaining a specific
role in areas
such as Artificial
Intelligence,
Computational
Linguistics, and
Databases. Its
importance has
been recognized
in fields as
diverse as
knowledge**

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**engineering,
knowledge
representation,
qualitative
modeling,
language
engineering,
database design,
information
integration,
object-oriented
analysis,**

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**information
retrieval and
extraction,
knowledge
management and
organization,
agent-based
systems design.
Current
applications
areas are
disparate,**

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including

enterprise

integration,

natural language

translation,

medicine,

mechanical

engineering,

electronic

commerce,

geographic

information

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**systems, legal
information
systems, and
biological
information
systems. Various
workshops
addressing the
engineering
aspects of
ontology have
been held in the**

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recent years.

However,

**ontology by 'its
very nature'**

**ought to be a
unifying**

discipline.

**Insights in this
field have**

potential impact

**on the whole area
of information**

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**systems (taking
this term in its
broadest sense),
as testified by the
interest recently
shown by
international
standards
organizations. In
order to provide a
solid general
foundation for**

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**this work, it is
therefore
important to
focus on the
common
scientific
principles and
open problems
arising from
current tools,
methodologies,
and applications**

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of ontology.

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of conceptual

and discourse

knowledge to the

comprehension

of German novel

noun-noun

compounds

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Mind as Machine
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Building &
Knowledge
Sharing 1995
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Cognitive
Science Of
Human
Understanding
Rationality In An**

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**Uncertain World
In Search of a
Humane Interface**
Textbook includes
both theories and
programs, and
covers all
recognized AI work
in sufficient detail to
allow a critique from
general concerns to
be anchored,
whenever possible,

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**in the structure of
specific AI
programs. --
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**The interaction of
database and AI
technologies is
crucial to such
applications as data
mining, active
databases, and
knowledge-based
expert systems.
This volume collects**

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the primary readings on the interactions, actual and potential, between these two fields. The editors have chosen articles to balance significant early research and the best and most comprehensive articles from the 1980s. An in-depth

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**introduction
discusses basic
research
motivations, giving
a survey of the
history, concepts,
and terminology of
the interaction.
Major themes,
approaches and
results, open issues
and future
directions are all
discussed,**

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**including the results
of a major survey
conducted by the
editors of current
work in industry and
research labs.**

**Thirteen sections
follow, each with a
short introduction.**

**Topics examined
include semantic
data models with
emphasis on
conceptual**

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**modeling
techniques for
databases and
information systems
and the integration
of data model
concepts in high-
level data
languages,
definition and
maintenance of
integrity constraints
in databases and
knowledge bases,**

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**natural language
front ends, object-
oriented database
management
systems,
implementation
issues such as
concurrency control
and error recovery,
and representation
of time and
knowledge
incompleteness
from the viewpoints**

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of databases, logic
programming, and
AI.

The way people normally view a GIS is 2-dimensional, a greatly limiting form. However, as developments occur within the field, researchers and practitioners are finding ways to make a GIS

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**3-dimensional, and
in some instances
even 4-dimensional.
Being able to view a
GIS in more than 2
dimensions greatly
enhances its
usability. This
forward-lookin
This fresh
exploration of the
utility of person
schemas for
understanding**

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**interpersonal
behavior and
intrapsychic conflict
brings together
psychoanalytic
researchers, social
learning theorists,
and cognitive
scientists. The
contributors show
that a fuller
conceptualization of
person schemas
can begin to close**

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**the gap between
psychodynamic and
cognitive science
research, providing
new methods for
understanding
disorders of
personality. There
are many strengths
in this volume
beyond the clear
presentation of the
person schema as a
concept linking**

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**cognitive and
psychodynamic
perspectives. . . .**

**Students will have
an opportunity for
comparison of
perspectives while
those working in the
field will have an
opportunity to
follow the shift from
concept to method
to case application
to theoretical**

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**context for
understanding
personality change.**

**Bertram J. Cohler,
University of
Chicago**

**Contributors are
Lorna Smith**

**Benjamin, Paul Crits-
Christoph, Randolph**

**L. Cunningham, Roy
D'Andrade, Amy**

**Demorest, Mary
Ewert, Scott H.**

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**Friedman, Frances
J. Friedrich, Jess H.
Ghannam, Dianna
Hartley, Mardi J.
Horowitz, John F.
Kihlstrom, Peter H.
Knapp, Lester
Luborsky, David
Mark, Thomas V.
Merluzzi, Stephen E.
Palmer, Carol Popp,
Peter Salovey,
Pamela Schaffler,
Jerome L. Singer,**

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**Charles H. Stinson,
and Sandra L.**

Tunis."

**Learning With
Artificial Worlds
Images: Synthesis,
Analysis, and
Interaction
Common Sense,
Reasoning, and
Rationality
The Second Age of
Computer Science
A History of**

Page 115/202

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**Cognitive Science
Advances in**

**Research and
Theory**

**The Psychology of
Expertise**

This book shows
how computer
models are used to
study many
psychological
phenomena -
including vision,

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language,
reasoning, and
learning.

In this book the
editors have
gathered a number
of contributions by
persons who have
been working on
problems of
Cognitive
Technology (CT).

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The present collection initiates explorations of the human mind via the technologies the mind produces. These explorations take as their point of departure the question What happens when humans produce

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new technologies?

Two

interdependent
perspectives from
which such a
production can be
approached are
adopted: □ How
and why
constructs that
have their origins
in human mental

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life are embodied
in physical
environments
when people
fabricate their
habitat, even to
the point of those
constructs
becoming that very
habitat □ How and
why these
fabricated habitats

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affect, and feed
back into, human
mental life. The
aim of the CT
research
programme is to
determine, in
general, which
technologies, and
in particular, which
interactive
computer-based

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technologies, are humane with respect to the cognitive development and evolutionary adaptation of their end users. But what does it really mean to be humane in a technological

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world? To shed light on this central issue other pertinent questions are raised, e.g. □ Why are human minds externalised, i.e., what purpose does the process of externalisation serve? □ What can

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we learn about the
human mind by
studying how it
externalises itself?

□ How does the
use of externalised
mental constructs
(the objects we call
'tools') change
people
fundamentally? □

To what extent

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does human
interaction with
technology serve
as an amplification
of human
cognition, and to
what extent does it
lead to a atrophy
of the human
mind? The book
calls for a
reflection on what

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a tool is. Strong parallels between CT and environmentalism are drawn: both are seen as trends having originated in our need to understand how we manipulate, by means of the tools we have created,

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our natural habitat
consisting of, on
the one hand, the
cognitive
environment which
generates thought
and determines
action, and on the
other hand, the
physical
environment in
which thought and

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Physics Manifesto

action are realised.
Both trends
endeavour to
protect the human
habitat from the
unwanted or
uncontrolled
impact of
technology, and
are ultimately
concerned with the
ethics and

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aesthetics of tool
design and tool
use. Among the
topics selected by
the contributors to
the book, the
following themes
emerge (the list is
not exhaustive):
using technology
to empower the
cognitively

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impaired; the
ethics versus
aesthetics of
technology; the
externalisation of
emotive and
affective life and
its special dialectic
(‘mirror’) effects;
creativity
enhancement:
cognitive space,

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problem
tractability;
externalisation of
sensory life and
mental imagery;
the engineering
and modelling
aspects of
externalised life;
externalised
communication
channels and inner

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dialogue;
externalised
learning protocols;
relevance analysis
as a theoretical
framework for
cognitive
technology.

This book brings
together an
influential
sequence of

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papers that argue for a radical re-conceptualisation of the psychology of inference, and of cognitive science more generally. The papers demonstrate that the thesis that logic provides the

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basis of human inference is central to much cognitive science, although the commitment to this view is often implicit. They then note that almost all human inference is uncertain, whereas logic is the calculus of certain

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inference. This mismatch means that logic is not the appropriate model for human thought. Oaksford and Chater's argument draws on research in computer science, artificial intelligence and philosophy of

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science, in
addition to
experimental
psychology. The
authors propose
that probability
theory, the
calculus of
uncertain
inference, provides
a more appropriate
model for human

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thought. They show how a probabilistic account can provide detailed explanations of experimental data on Wason's selection task, which many have viewed as providing a

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paradigmatic
demonstration of
human irrationality.
Oaksford and
Chater show that
people's behaviour
appears irrational
only from a logical
point of view,
whereas it is
entirely rational
from a probabilistic

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perspective. The
shift to a
probabilistic
framework for
human inference
has significant
implications for the
psychology of
reasoning,
cognitive science
more generally,
and for our picture

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of ourselves as
rational agents.

Psychology of
Learning and
Motivation

Advances in
Computer
Graphics

Psychology of
Learning and
Motivation

Formal Theories of

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the Commonsense
World

AI 2001: Advances
in Artificial
Intelligence

MICAI 2004:

Advances in
Artificial

Intelligence

Proceedings of the
First International
Conference on

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Principles of
Knowledge
Representation
and Reasoning

**Eric Rogers was
an excellent
physics teacher,
with a worldwide
reputation for the
passion,
profundity, and**

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**quirkiness of his
thinking. Written**

**by a
distinguished
international
group of
contributors,
Wonder and
Delight honors
his memory by
collecting
together writings
about science**

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**education that
have lasting
relevance and on
subjects about
which Eric
Rogers cared
deeply.**

**Proceedings held
May 1989. Topics
include temporal
logic,
hierarchical
knowledge bases,**

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**default theories,
nonmonotonic
and analogical
reasoning, formal
theories of belief
revision, and
metareasoning.**

Annotation

**copyright Book
News, Inc.**

Portland, Or.

**While common
sense and**

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**rationality have
often been viewed
as two distinct
features in a
unified cognitive
map, this volume
engages with this
notion and comes
up with novel and
often paradoxical
views of this
relationship.
By the end of the**

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**1960s, a new
discipline named
computer science
had come into
being. A new
scientific
paradigm--the
'computational
paradigm'--was in
place, suggesting
that computer
science had
reached a certain**

Second Naive
Physics Manifesto

**level of maturity.
Yet as a science it
was still
precociously
young. New
forces, some
technological,
some socio-
economic, some
cognitive
impinged upon it,
the outcome of
which was that**

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**new kinds of
computational
problems arose
over the next two
decades. Indeed,
by the beginning
of the 1990's the
structure of the
computational
paradigm looked
markedly
different in many
important**

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**respects from
how it was at the
end of the 1960s.
Author Subrata
Dasgupta named
the two decades
from 1970 to
1990 as the
second age of
computer science
to distinguish it
from the
preceding genesis**

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**of the science
and the age of
the
Internet/World
Wide Web that
followed. This
book describes
the evolution of
computer science
in this second age
in the form of
seven
overlapping,**

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Second Naive
Physics Manifesto

**intermingling,
parallel histories
that unfold
concurrently in
the course of the
two decades.
Certain themes
characteristic of
this second age
thread through
this narrative: the
desire for a
genuine science**

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**of computing; the
realization that
computing is as
much a human
experience as it is
a technological
one; the search
for a unified
theory of
intelligence
spanning
machines and
mind; the desire**

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**to liberate the
computational
mind from the
shackles of
sequentiality;
and, most
ambitiously, a
quest to subvert
the very core of
the
computational
paradigm itself.
We see how the**

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Physics Manifesto

**computer
scientists of the
second age
address these
desires and
challenges, in
what manner they
succeed or fail
and how, along
the way, the
shape of
computational
paradigm was**

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**altered. And to
complete this
history, the
author asks and
seeks to answer
the question of
how computer
science shows
evidence of
progress over the
course of its
second age.**

Proceedings of

Page 156/202

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**the First
International
Conference
(FOIS'98), June
6-8, Trento, Italy
From Algol Genes
to Neural Nets
Readings in
Artificial
Intelligence and
Databases
Blackboard
Systems**

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**A Thoretical
Basis for GIS.
International
Conference,
COSIT '95,
Semmering,
Austria,
September 21-23,
1995,
Proceedings
Computer Based
Modelling In The
Curriculum**

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**Qualitative Spatio-
Temporal**

**Representation
and Reasoning:
Trends and
Future Directions**

Artificial
intelligence (AI) is
a field within
computer science
that is attempting
to build enhanced

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intelligence into
computer systems.

This book traces
the history of the
subject, from the
early dreams of
eighteenth-century
(and earlier)
pioneers to the
more successful
work of today's AI
engineers. AI is

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becoming more
and more a part of
everyone's life.

The technology is
already embedded
in face-recognizing
cameras, speech-
recognition
software, Internet
search engines,
and health-care
robots, among

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other applications.
The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its

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thorough (but
unobtrusive) end-
of-chapter notes
containing
citations to
important source
materials will be of
great use to AI
scholars and
researchers. This
book promises to
be the definitive

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history of a field
that has captivated
the imaginations of
scientists,
philosophers, and
writers for
centuries.

Readings in
Qualitative
Reasoning about
Physical Systems
describes the

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automated
reasoning about
the physical world
using qualitative
representations.
This text is divided
into nine chapters,
each focusing on
some aspect of
qualitative physics.
The first chapter
deal with

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qualitative physics,
which is concerned
with representing
and reasoning
about the physical
world. The goal of
qualitative physics
is to capture both
the commonsense
knowledge of the
person on the
street and the tacit

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knowledge
underlying the
quantitative
knowledge used
by engineers and
scientists. The
succeeding
chapter discusses
the qualitative
calculus and its
role in constructing
an envisionment

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that includes
behavior over both
mythical time and
elapsed time.

These topics are
followed by
reviews of the
mathematical
aspects of
qualitative
reasoning, history-
based simulation

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and temporal reasoning, as well as the intelligence in scientific computing. The final chapters are devoted to automated modeling for qualitative reasoning and causal

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explanations of
behavior. These
chapters also
examine the
qualitative
kinematics of
reasoning about
shape and space.
This book will
prove useful to
psychologists and
psychiatrists.

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The development of cognitive science is one of the most remarkable and fascinating intellectual achievements of the modern era. It brings together psychology, neuroscience,

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artificial
intelligence,
computing,
philosophy,
linguistics, and
anthropology in
the project of
understanding the
mind by modelling
its workings.

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presents a
masterful history of
cognitive science,
told by one of its
most eminent
practitioners.

Organized by:

European

Coordinating

Committee for AI

(ECCAI)

Artificial

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Intelligence: Its
Scope and Limits
Formal Ontology in
Information
Systems
Thinking Between
the Lines
Trends and Future
Directions
Computational
Theories of
Interaction and

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Agency
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Intelligent

Supervisory

Control

Qualitative

Reasoning about

Physical Systems

The Mexican

International

Conference on

Artificial

Intelligence

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*(MICA) is a
biennial
conference
established to
promote research
in artificial
intelligence (AI),
and cooperation
among Mexican
researchers and
their peers
worldwide. MICA*

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*is organized by
the Mexican
Society for
Artificial
Intelligence
(SMIA), in colla-
ration with the
American
Association for
Artificial
Intelligence
(AAAI) and the*

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*Mexican Society
for Computer
Science (SMCC).*

*After two
successful
conferences, we
are pleased to
present the 3rd
Mexican
International
Conference on
Artificial*

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*Intelligence,
MICA I 2004,
which took place
on April 26-30,
2004, in Mexico
City, Mexico. This
volume contains
the papers
included in the
conference main
program, which
was*

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*complemented by
tutorials and
workshops,
published in
supplementary
proceedings. The
proceedings of
past MICA
conferences, 2000
and 2002, were
also published in
Springer-Verlag's*

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*Lecture Notes in
Artificial
Intelligence
(LNAI) series,
volumes 1793 and
2313. The number
of submissions to
MICA I 2004 was
significantly
higher than those
of previous
conferences -- 254*

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*papers from 19
different
countries were
submitted for
consideration to
MICA I 2004. The
evaluation of this
unexpectedly
large number of
papers was a
challenge, both in
terms of the*

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*quality of the
papers and of the
review workload
of each PC
member. After a
thorough
reviewing
process, MICAI's
Program
Committee and
Programs Chairs
accepted 97 hi-*

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quality papers. So the acceptance rate was 38.2%. CyberChair, a free Web-based paper submission and reviewing system, was used as an electronic support for the reviewing process. This book contains revised

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*versions of the 94
papers presented
at the conference.*

*The volume is
structured into 13
thematic fields
according to the
topics addressed
by the papers,
which are
representative of
the main current*

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*area of interest
within the AI
community.*

*In this book, a
methodology
integrating
qualitative
reasoning and
bond graphs is
developed to
construct
intelligent*

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*supervisory
control systems.*

*Qualitative
reasoning is a
powerful model-
based reasoning
method while
bond graphs are a
formal modelling
language for
dynamic systems.
Their integration*

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and qualitative reasoning on bond graphs results in a problem-solving approach to artificial intelligence, in which qualitative reasoning is used as the general reasoning strategy and bond

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graphs are employed as the knowledge representation. A systematic modelling procedure based on qualitative bond graphs is presented. A controller design method is

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*developed to
derive control
algorithms from
qualitative bond
graph models. An
auto-tuning
scheme is
proposed to adjust
the controllers in
order to meet
performance
criteria and adapt*

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*to system
changes. A fault
diagnosis
mechanism is
built to localise
system faults, and
an additional
measurement
suggestion
method is
developed for the
diagnosis result*

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*refinement. An
automatic planner
is proposed to
generate the
operation
sequences for
system start-up,
shut-down, and
emergency
measures to help
human operators
operate systems*

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safely. All of these applications are combined together via a management mechanism to construct a supervisory control system.

*Contents: Introduction
Review of
Previous*

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*Work Qualitative
Bond Graph*

Modelling Hybrid

*Qualitative and
Quantitative Cont
rol Auto-*

*Tuning Fault Diag
nosis Intelligent*

*Supervisory Contr
ol Conclusions and*

*Suggestions for
Future Work*

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*Readership:
Systems &
knowledge
engineers,
electrical &
electronic
engineers,
mechanical
engineers, and
researchers in
artificial
intelligence.*

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keywords:

This work is intended as a tutorial textbook on blackboard systems. Initially, exercises require discursive or descriptive answers; later exercises require design studies. It

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*ends with a
detailed
description of a
small system and
the reader is
asked to design
and implement
extensions to it.
This volume
brings together
current work on
qualitative*

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*reasoning. Its
publication
reflects the
maturity of
qualitative
reasoning as a
research area and
the growing
interest in
problems of
reasoning about
physical systems.*

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The papers present knowledge bases for a number of very different domains, including heat flow, transistors, and digital computation. A common theme of all these papers is

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*explaining how
physical systems
work. An
important shared
criterion is that
the behavioral
description must
be compositional,
that is the
description of a
system's behavior
must be derivable*

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*Second Naive
Physics Manifesto*
from the structure
of the system.

*This material
should be of
interest to anyone
concerned with
automated
reasoning about
the real (physical)
world.*

*Computer Models
of Mind*

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*Advanced Topics
in Artificial
Intelligence
The Psychology of
Proof*