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Life Hardcover – July 1,
1994 by Fla.) IEEE

World Congress on
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Orlando (Author), Jacek

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M. Zurada (Editor), II
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Zurada, Robert J. Marks
II and Charles J.~~

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Robinson. (IEEE Press,
1994) ISBN
0-7803-1104-3.

Hardcover, 448 Pages.

~~Dr. Jacek M. Zurada,
University of Louisville,
KY~~

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Intelligence: Imitating
Life. edited by Jacek M.
Zurada, Robert J. Marks
II and Charles J.
Robinson (IEEE Press,

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those all needs once
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Intelligence, Imitating
Life. IEEE Computer
Society Press, 1994.

Biographical Sketches

Bart G.W. Craenen His
research interests lie in
the field of Artificial
Intelligence (AI), more
specifically in the field
which is called Natural
Computing (NC) and

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Intelligence
Intelligence (CI). He
specialises in solving
Constraint

Computational Intelligence

Image segmentation is generally a very challenging problem in today's medical image processing some of the computer intelligence paradigms that help

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segmentation process in
image processing are...

~~(PDF) What is
Computational
Intelligence?~~

Abstract. Here is the
abstract from my 1992
paper about
Computational
Intelligence (CI) []: This
paper concerns the
relationship between
neural-like

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computational networks,
numerical pattern
recognition and
intelligence. Extensive
research that proposes
the use of neural models
for a wide variety of
applications has been
conducted in the past few
years.

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~~Intelligence Defined By~~
~~Everyone ...~~

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Abstract. The chapter provides an introduction to computational intelligence. It begins with a thorough review of the underlying principles of artificial intelligence, and examines the scope of computational intelligence in overcoming the limitations of the traditional AI. The chapter then briefly

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introduces various tools of computational intelligence such as fuzzy logic, neural network, genetic algorithm, belief network, chaos theory, computational learning theory and artificial life.

An Introduction to
Computational
Intelligence |
SpringerLink
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Intelligence is therefore a method of performing like people. To be sure, the quality of “ insight ” is generally ascribed to people. All the more as of late, numerous items and things additionally guarantee to be “ keen ” , a characteristic which is straightforwardly connected to the thinking and dynamic.

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~~Computational
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Intelligence: What It Is,
Artificial ...~~

Conference:
Evolutionary
Computation
Proceedings, 1998. IEEE
World Congress on
Computational
Intelligence., The 1998
IEEE International
Conference on

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(PDF) A Modified
Particle Swarm
Optimizer

Robert Jackson Marks II is an American electrical engineer. His contributions include the Zhao-Atlas-Marks (ZAM) time-frequency distribution in the field of signal processing, the Cheung – Marks theorem in Shannon sampling theory and the

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Papoulis-Marks-Cheung (PMC) approach in multidimensional sampling. He was instrumental in the defining of the field of computational intelligence and co-edited ...

~~Robert J. Marks II~~
~~Wikipedia~~

-Xin Yao, The Centre of
Excellence for Research

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Intelligence

Intelligence and

Applications,

Birmingham The "soft"

analytic tools that

comprise the field of

computational

intelligence have matured

to the extent that they

can, often in powerful

combination with one

another, form the

foundation for a variety

of solutions suitable for

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use by ...

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~~Computational
Intelligence | Guide
books~~

He also has authored or co-authored three books, including the pioneering text Introduction to Artificial Neural Systems, co-edited the volumes Computational Intelligence: Imitating Life, Knowledge-Based

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Neurocomputing, and co-edited twenty volumes in Springer Lecture Notes on Computer Science.

He has held visiting appointments at Princeton, Northeastern, Auburn, and at foreign universities in Australia, Chile, China, France, Germany, Hong Kong, Italy, Japan, Poland, Singapore, Spain, South

...

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~~Dr. Jacek M. Zurada,
University of Louisville,
KY~~

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Computational
Intelligence in
Automotive Applications
Preface What is
computational
intelligence (CI)?

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Traditionally, CI is understood as a collection of methods from the fields of neural networks (NN), fuzzy logic and evolutionary computation.

Computational
Intelligence in
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pet

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SYMPOSIUM

SPEAKERS: December

1993 IEEE Neural

Networks Council

CoNNections 11 Hans-

Paul Schwefe On the

Evolution of

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DeJong Genetic

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~~The Newsletter of the
IEEE Neural Networks
Council~~

Computational
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Life Edited by Jacek
Zurada, R.J. Marks II and
C.J. Robinson (IEEE
Press, 1994) Informative
papers still relevant
today. Published during
the second wave of

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interest in AI and the first
book to use

“ computational
intelligence ” in the title.

~~Research | The Walter
Bradley Center for
Natural ...~~

He is also the co-editor
of two influential books
on computational
intelligence:

Computational
Intelligence: Imitating

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Life (IEEE Press), and
Computational
Intelligence: A Dynamic
Systems Perspective
(IEEE Press). Explore his
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Research; Education; and
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~~About the Center | The
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Details (Isaac Councill,
Lee Giles, Pradeep
Teregowda): This paper
does not present any new
developments in the field
of Evolutionary
Computation -- neither
concerning theory nor
applications. It tries,
however, to give an
overview of motivations
in the field and to

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conclude from the differences between the three main species of algorithms that there are a lot of open ...

Soft computing is a consortium of computing methodologies that

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provide a foundation for the conception, design, and deployment of intelligent systems and aims to formalize the human ability to make rational decisions in an environment of uncertainty and imprecision. This book is based on a NATO Advanced Study Institute held in 1996 on soft computing and its

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applications. The distinguished contributors consider the principal constituents of soft computing, namely fuzzy logic, neurocomputing, genetic computing, and probabilistic reasoning, the relations between them, and their fusion in industrial applications. Two areas emphasized in the book are how to

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achieve a synergistic
combination of the main
constituents of soft
computing and how the
combination can be used
to achieve a high
Machine Intelligence
Quotient.

Computational
intelligence is a
component of
Encyclopedia of
Technology,

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Intelligence
Systems Management
Resources in the global
Encyclopedia of Life
Support Systems
(EOLSS), which is an
integrated compendium
of twenty one
Encyclopedias.
Computational
intelligence is a rapidly
growing research field
including a wide variety
of problem-solving

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intelligence inspired by nature. Traditionally computational intelligence consists of three major research areas: Neural Networks, Fuzzy Systems, and Evolutionary Computation. Neural networks are mathematical models inspired by brains. Neural networks have massively parallel

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network structures with many neurons and weighted connections.

Whereas each neuron has a simple input-output relation, a neural network with many neurons can realize a highly non-linear complicated mapping.

Connection weights between neurons can be adjusted in an automated manner by a learning

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algorithm to realize a non-linear mapping required in a particular application task. Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language. For example, it is very difficult to mathematically define the meaning of “ cold ” in everyday conversations such as “ It is cold

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today ” and “ Can I have cold water ” . The meaning of “ cold ” may be different in a different situation. Even in the same situation, a different person may have a different meaning. Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language. As a result, fuzzy systems have been

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successfully applied to real-world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF-THEN rules.

Evolutionary computation includes various population-based search algorithms inspired by evolution in nature. Those algorithms usually have the following three

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mechanisms: fitness evaluation to measure the quality of each solution, selection to choose good solutions from the current population, and variation operators to generate offspring from parents. Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it

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does not need any explicit mathematical formulations of objective functions. For example, simulation-based fitness evaluation is often used in evolutionary design. Subjective fitness evaluation by a human user is also often used in evolutionary art and music. These volumes are aimed at the following five major target

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audiences: University
and College students
Educators, Professional
practitioners, Research
personnel and Policy
analysts, managers, and
decision makers.

Artificial Intelligence is a
component of
Encyclopedia of
Technology,
Information, and
Systems Management

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Resources in the global
Encyclopedia of Life
Support Systems
(EOLSS), which is an
integrated compendium
of twenty Encyclopedias.
The Theme on Artificial
Intelligence provides the
essential aspects and
fundamentals of Artificial
Intelligence: Definition,
Trends, Techniques, and
Cases; Logic in Artificial
Intelligence (AI);

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Intelligence
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Computational
Intelligence; Knowledge
Based System

Development Tools. It is aimed at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers.

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Telecommunications has evolved and grown at an explosive rate in recent years and will undoubtedly continue to do so. As its functions, applications, and technology grow, it becomes increasingly complex and difficult, if not impossible, to meet the demands of a global network using conventional computing

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technologies.

Computational
Intelligence (CI) is the
technology of the future-
and the future is now.

Computational
Intelligence in
Telecommunications
Networks offers an in-
depth look at the rapid
progress of CI
technology and shows its
importance in solving the
crucial problems of

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future
telecommunications
networks. It covers a
broad range of topics,
from Call Admission
Control, congestion
control, and QoS-
routing for ATM
networks, to network
design and management,
optical, mobile, and
active networks, and
Intelligent Mobile
Agents. Today's

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telecommunications professionals need a working knowledge of CI to exploit its potential to overcome emerging challenges. The CI community must become acquainted with those challenges to take advantage of the enormous opportunities the telecommunications field offers. This text meets both those needs,

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clearly, concisely, and
with a depth certain to
inspire further theoretical
and practical advances.

In recent years, rapid
changes and
improvements have been
witnessed in the field of
transformer condition
monitoring and
assessment, especially
with the advances in
computational

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intelligence techniques.

Condition Monitoring
and Assessment of Power

Transformers Using

Computational

Intelligence applies a

broad range of

computational

intelligence techniques to

deal with practical

transformer operation

problems. The

approaches introduced

are presented in a concise

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and flowing manner,
tackling complex
transformer modelling
problems and
uncertainties occurring in
transformer fault
diagnosis. Condition
Monitoring and
Assessment of Power
Transformers Using
Computational
Intelligence covers both
the fundamental theories
and the most up-to-date

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research in this rapidly changing field. Many examples have been included that use real-world measurements and realistic operating scenarios of power transformers to fully illustrate the use of computational intelligence techniques for a variety of transformer modelling and fault diagnosis

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problems. Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence is a useful book for professional engineers and postgraduate students. It also provides a firm foundation for advanced undergraduate students in power engineering.

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This book is about synergy in computational intelligence (CI). It is a collection of chapters that covers a rich and diverse variety of computer-based techniques, all involving some aspect of computational intelligence, but each one taking a somewhat pragmatic view. Many complex problems in the real world require the

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application of some form
of what we loosely call
“intel-

gence ” for their solution.
Few can be solved by the naive
application of a single
technique, however good
it is. Authors in this
collection recognize the
limitations of individual
paradigms, and propose
some practical and novel
ways in which different CI
techniques can be

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combined with each other, or with more traditional computational techniques, to produce powerful problem-solving environments which exhibit synergy, i. e. , systems in which the whole is greater than the sum of the parts .

Computational intelligence is a relatively new term, and there is some disagreement as to

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its precise definition.

Some practitioners limit its scope to schemes involving evolutionary algorithms, neural networks, fuzzy logic, or hybrids of these. For others, the definition is a little more flexible, and will include paradigms such as Bayesian belief networks, multi-agent systems, case-based reasoning and so on.

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Generally, the term has a similar meaning to the well-known phrase

“ Artificial Intelligence ”
(AI), although CI is perceived more as a

“ bottom up ”
approach from which intelligent behaviour can emerge, whereas AI tends to be studied from the “ top down ” , and derive from pondering upon the
“ meaning of

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intelligence”. (These and other key issues will be discussed in more detail in Chapter 1.

Computational
Intelligence: Synergies of
Fuzzy Logic,
Neural Networks and
Evolutionary Computing
presents an introduction
to some of the cutting
edge technological
paradigms under the

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umbrella of
intelligence
computational
imitating Life
intelligence.

Computational
intelligence schemes are
investigated with the
development of a suitable
framework for fuzzy
logic, neural networks
and evolutionary
computing, neuro-fuzzy
systems, evolutionary-
fuzzy systems and
evolutionary neural

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systems. Applications to linear and non-linear systems are discussed with examples. Key features: Covers all the aspects of fuzzy, neural and evolutionary approaches with worked out examples, MATLAB® exercises and applications in each chapter Presents the synergies of technologies of computational intelligence

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e such as evolutionary
fuzzy neural fuzzy
andevolutionary neural
systems Considers real
world problems in the
domain of
systemsmodelling,
control and optimization
Contains a foreword
written by Lotfi Zadeh
Computational
Intelligence: Synergies of
Fuzzy Logic,
NeuralNetworks and

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Evolutionary Computing
is an ideal text for
final year undergraduate,
postgraduate and
research students
in electrical, control,
computer, industrial and
manufacturing engineering.

Computational
Intelligence: Concepts to
Implementations
provides the most

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complete and practical coverage of computational intelligence tools and techniques to date. This book integrates various natural and engineering disciplines to establish Computational Intelligence. This is the first comprehensive textbook on the subject, supported with lots of practical examples. It

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asserts that
computational
intelligence rests on a
foundation of
evolutionary
computation. This
refreshing view has set
the book apart from
other books on
computational
intelligence. This book
lays emphasis on
practical applications and
computational tools,

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which are very useful and important for further development of the computational intelligence field.

Focusing on evolutionary computation, neural networks, and fuzzy logic, the authors have constructed an approach to thinking about and working with computational intelligence that has, in

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their extensive
experience, proved
highly effective. The
book moves clearly and
efficiently from concepts
and paradigms to
algorithms and
implementation
techniques by focusing,
in the early chapters, on
the specific con. It
explores a number of key
themes, including self-
organization, complex

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adaptive systems, and emergent computation. It details the metrics and analytical tools needed to assess the performance of computational intelligence tools. The book concludes with a series of case studies that illustrate a wide range of successful applications. This book will appeal to professional and academic researchers in

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computational intelligence applications, tool development, and systems. Moves clearly and efficiently from concepts and paradigms to algorithms and implementation techniques by focusing, in the early chapters, on the specific concepts and paradigms that inform the authors' methodologies Explores

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a number of key themes,
including self-
organization, complex
adaptive systems, and
emergent computation
Details the metrics and
analytical tools needed to
assess the performance of
computational
intelligence tools
Concludes with a series
of case studies that
illustrate a wide range of
successful applications

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Presents code examples
in C and C++ Provides,
at the end of each

chapter, review questions
and exercises suitable for
graduate students, as well
as researchers and
practitioners engaged in
self-study

In recent years, there has
been a growing interest in
the need for designing
intelligent systems to

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address complex
decision systems. One of
the most challenging
issues for the intelligent
system is to effectively
handle real-world
uncertainties that cannot
be eliminated. These
uncertainties include
various types of
information that are
incomplete, imprecise,
fragmentary, not fully
reliable, vague,

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contradictory, deficient, and overloading. The uncertainties result in a lack of the full and precise knowledge of the decision system, including the determining and selection of evaluation criteria, alternatives, weights, assignment scores, and the final integrated decision result.

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intelligent techniques (including fuzzy logic, neural networks, and genetic algorithms etc.), which are complimentary to the existing traditional techniques, have shown great potential to solve these demanding, real-world decision problems that exist in uncertain and unpredictable environments. These technologies have

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formed the foundation
for intelligent systems.

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