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Hardcover – July 1, 1994 by Fla.) IEEE
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Press, 1994) ISBN 0-7803-1104-3.
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Computational 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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Computational Intelligence (CI). He specialises in solving Constraint

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

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the relationship between neural-like 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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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

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the limitations of the traditional AI. The chapter then briefly introduces various tools of computational intelligence such as fuzzy logic, neural network, genetic algorithm, belief network, chaos theory, computational learning theory and artificial life.

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which is straightforwardly connected to the thinking and dynamic.

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

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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

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

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He also has authored or co-authored three books, including the pioneering text Introduction to Artificial Neural Systems, co-edited the volumes Computational

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Intelligence: Imitating Life, Knowledge-Based 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,

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in Automotive Applications Preface What

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is computational intelligence (CI)?

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

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Perspective Lawrence J. Fogel

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Evolutionary Programming in

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Informative papers still relevant today.

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Published during the second wave of interest in AI and the first book to use “ computational intelligence ” in the title.

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

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Computational Intelligence: Imitating Life (IEEE Press) , and Computational Intelligence: A Dynamic Systems Perspective (IEEE Press). Explore his full cv. Programs. Our programs are organized into four broad areas: Communication; Research; Education; and Application.

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This paper does not present any new developments in the field of Evolutionary Computation -- neither concerning theory

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nor applications. It tries, however, to give an overview of motivations in the field and to conclude from the differences between the three main species of algorithms that there are a lot of open ...

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Soft computing is a consortium of computing methodologies that 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

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uncertainty and imprecision. This book is based on a NATO Advanced Study Institute held in 1996 on soft computing and its applications. The distinguished contributors consider the principal constituents of soft computing, namely fuzzy logic, neurocomputing, genetic computing, and probabilistic reasoning,

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the relations between them, and their fusion in industrial applications. Two areas emphasized in the book are how to 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.

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Computational intelligence is a component of Encyclopedia of Technology, Information, and Systems Management Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Computational intelligence

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is a rapidly growing research field including a wide variety of problem-solving techniques inspired by nature. Traditionally computational intelligence consists of three major research areas: Neural Networks, Fuzzy Systems, and Evolutionary Computation. Neural networks are mathematical models

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inspired by brains. Neural networks have massively parallel 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

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in an automated manner by a learning 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

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conversations such as “ It is cold 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

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a result, fuzzy systems have been 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

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following three 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

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characteristics since it 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

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five major target 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,

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and Systems Management 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

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Cases; Logic in Artificial Intelligence (AI); 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

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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

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demands of a global network using conventional computing 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

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solving the crucial problems of 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

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concise 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 research in this rapidly changing

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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 problems. Condition Monitoring and Assessment of Power

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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.

This book is about synergy in

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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 application of some form of

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what we loosely call “intelligence” 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 combined with each

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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 its precise definition. Some

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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. Generally, the term has a similar meaning

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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 “ topdown ” , and derive from pondering upon the “ meaning of intelligence ” . (These and other key issues

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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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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 such as

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evolutionary fuzzy neural fuzzy
andevolutionary neural systems Considers
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Computing is an ideal text for final year undergraduate, postgraduate and research students in electrical, control, computer, industrial and manufacturing engineering.

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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 asserts that computational intelligence rests on a foundation of

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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, which are very useful and important for further development of the computational intelligence field. Focusing on evolutionary

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computation, neural networks, and fuzzy logic, the authors have constructed an approach to thinking about and working with computational intelligence that has, in their extensive experience, proved highly effective. The book moves clearly and efficiently from concepts and paradigms to algorithms and

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engaged in self-study

In recent years, there has been a growing interest in the need for designing intelligent systems to address complex decision systems. One of the most challenging issues for the intelligent system is to effectively handle real-world

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uncertainties that cannot be eliminated. These uncertainties include various types of information that are incomplete, imprecise, fragmentary, not fully reliable, vague, contradictory, deficient, and overloading. The uncertainties result in a lack of the full and precise knowledge of the decision system, including the

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determining and selection of evaluation criteria, alternatives, weights, assignment scores, and the final integrated decision result. Computational intelligent techniques (including fuzzy logic, neural networks, and genetic algorithms etc.), which are complimentary to the existing traditional techniques, have shown great

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potential to solve these demanding, real-world decision problems that exist in uncertain and unpredictable environments. These technologies have formed the foundation for intelligent systems.

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