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

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Biographical Sketches Bart G.W. Craenen

His research interests lie in the field of

Artificial Intelligence (AI), more specifically

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in the field which is called Natural Computing (NC) and Computational Intelligence (CI). He specialises in solving Constraint

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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 Intelligence: Imitating Life, Knowledge-Based Neurocomputing, and co-edited

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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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Automotive Applications Preface What is
computational intelligence (CI)?

Traditionally, CI is understood as a

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collection of methods from the fields of neural networks (NN), fuzzy logic and evolutionary computation.

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~~The Newsletter of the IEEE Neural
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Informative papers still relevant today.

Published during the second wave of interest
in AI and the first book to use

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He is also the co-editor of two influential books on computational intelligence: Computational Intelligence: Imitating Life (IEEE Press) , and Computational

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three main species of algorithms that there are a lot of open ...

Soft computing is a consortium of

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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 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 achieve a synergistic

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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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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 techniques inspired by nature. Traditionally computational intelligence consists of three

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major research areas: Neural Networks, Fuzzy Systems, and Evolutionary Computation. Neural networks are mathematical models 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

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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 algorithm to realize a non-linear mapping required in a particular application task. Fuzzy systems are mathematical models proposed to handle

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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 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

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different meaning. Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language. As 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.

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population-based search algorithms inspired by evolution in nature. Those algorithms usually have the 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.

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This book is about synergy in computational intelligence (CI). It is a collection of chapters

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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 what we loosely call “intelligence” for their solution. Few can be solved by

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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 other, or with more traditional computational techniques, to produce

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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 practitioners limit its scope to schemes involving evolutionary algorithms, neural

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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 to the well-known phrase “ Artificial Intelligence ” (AI), although CI is perceived

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more as a “ bottom up ” approach from which intelligent behaviour can emerge, whereas it tends to be studied from the “ top down ” , and derive from pondering upon the “ meaning of intelligence ” . (These and other key issues will be discussed in more detail in Chapter 1.

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systems to 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, contradictory, deficient,

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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. Computational intelligent techniques (including fuzzy logic, neural networks, and

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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 formed the foundation for intelligent systems.

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