



Computational Intelligence: A Methodological Introduction (Texts in Computer Science)

By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held



Download



Read Online

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held

This clearly-structured, classroom-tested textbook/reference presents a methodical introduction to the field of CI. Providing an authoritative insight into all that is necessary for the successful application of CI methods, the book describes fundamental concepts and their practical implementations, and explains the theoretical background underpinning proposed solutions to common problems. Only a basic knowledge of mathematics is required. Features: provides electronic supplementary material at an associated website, including module descriptions, lecture slides, exercises with solutions, and software tools; contains numerous examples and definitions throughout the text; presents self-contained discussions on artificial neural networks, evolutionary algorithms, fuzzy systems and Bayesian networks; covers the latest approaches, including ant colony optimization and probabilistic graphical models; written by a team of highly-regarded experts in CI, with extensive experience in both academia and industry.



[Download Computational Intelligence: A Methodological Intro ...pdf](#)



[Read Online Computational Intelligence: A Methodological Int ...pdf](#)

Computational Intelligence: A Methodological Introduction (Texts in Computer Science)

By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held

This clearly-structured, classroom-tested textbook/reference presents a methodical introduction to the field of CI. Providing an authoritative insight into all that is necessary for the successful application of CI methods, the book describes fundamental concepts and their practical implementations, and explains the theoretical background underpinning proposed solutions to common problems. Only a basic knowledge of mathematics is required. Features: provides electronic supplementary material at an associated website, including module descriptions, lecture slides, exercises with solutions, and software tools; contains numerous examples and definitions throughout the text; presents self-contained discussions on artificial neural networks, evolutionary algorithms, fuzzy systems and Bayesian networks; covers the latest approaches, including ant colony optimization and probabilistic graphical models; written by a team of highly-regarded experts in CI, with extensive experience in both academia and industry.

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held
Bibliography

- Sales Rank: #2980938 in Books
- Brand: Brand: Springer
- Published on: 2013-03-28
- Original language: German
- Number of items: 1
- Dimensions: 9.21" h x 1.06" w x 6.14" l, 1.93 pounds
- Binding: Hardcover
- 492 pages

 [Download Computational Intelligence: A Methodological Intro ...pdf](#)

 [Read Online Computational Intelligence: A Methodological Int ...pdf](#)

Download and Read Free Online Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held

Editorial Review

Review

From the reviews:

“This book teaches computational intelligence (CI) in a thorough, methodological manner that is theoretically profound and educationally oriented. ... this book is well designed for the independent student who wishes to learn the fundamentals of CI without the need for an instructor. The organization and thorough step-by-step methodology makes it an excellent startup guide for someone who wants to learn CI ... This book is targeted at beginners, students, or professionals who wish to understand CI.” (Mario Antoine Aoun, Computing Reviews, February, 2014)

“The book under review is a textbook that features sub-symbolic approaches developed within the field of Artificial Intelligence ... It can be used as a companion book for lectures, with exercises and slides to be found on the book’s website. With its focus on sub-symbolic approaches, it presents a comprehensive and detailed source of information complementary to other commonly used textbooks in Artificial Intelligence that mostly focus on symbolic approaches.” (Jana Köhler, zbMATH, Vol. 1283, 2014)

“The book is a comprehensive treatise on computational intelligence with a focus on the underlying methodology and algorithms. ... The reader can enjoy a comprehensive and systematically arranged exposure of the material. ... The references following each chapter can serve as a list of introductory readings on the individual areas of computational intelligence. ... the reader gains a good sense of computational intelligence as an important endeavor supporting analysis and synthesis of intelligent systems. ... a useful compendium of knowledge for a broad audience.” (Witold Pedrycz, Mathematical Reviews, November, 2013)

From the Back Cover

Computational intelligence (CI) encompasses a range of nature-inspired methods that exhibit intelligent behavior in complex environments.

This clearly-structured, classroom-tested textbook/reference presents a methodical introduction to the field of CI. Providing an authoritative insight into all that is necessary for the successful application of CI methods, the book describes fundamental concepts and their practical implementations, and explains the theoretical background underpinning proposed solutions to common problems. Only a basic knowledge of mathematics is required.

Topics and features:

- Provides electronic supplementary material at an associated website, including module descriptions, lecture slides, exercises with solutions, and software tools
- Contains numerous examples and definitions throughout the text
- Presents self-contained discussions on artificial neural networks, evolutionary algorithms, fuzzy systems and Bayesian networks
- Covers the latest approaches, including ant colony optimization and probabilistic graphical models

- Written by a team of highly-regarded experts in CI, with extensive experience in both academia and industry

Students of computer science will find the text a must-read reference for courses on artificial intelligence and intelligent systems. The book is also an ideal self-study resource for researchers and practitioners involved in all areas of CI.

About the Author

Rudolf Kruse is a full professor at the Department of Computer Science of the Otto-von-Guericke University of Magdeburg, Germany, where he leads the working group on computational intelligence.

Christian Moewes and **Pascal Held** are research assistants at the same institution. **Christian Borgelt** is a principal researcher at the European Centre for Soft Computing, Mieres, Spain. **Frank Klawonn** is a Professor at the Department of Computer Science of Ostfalia University of Applied Sciences, Wolfenbüttel, Germany. **Matthias Steinbrecher** is a member of the SAP Innovation Center, Potsdam, Germany.

Users Review

From reader reviews:

Ellen Kelsey:

What do you think about book? It is just for students since they are still students or the idea for all people in the world, what the best subject for that? Only you can be answered for that question above. Every person has several personality and hobby for every other. Don't be pushed someone or something that they don't want do that. You must know how great along with important the book Computational Intelligence: A Methodological Introduction (Texts in Computer Science). All type of book are you able to see on many methods. You can look for the internet resources or other social media.

Daniel Padilla:

In this period of time globalization it is important to someone to get information. The information will make you to definitely understand the condition of the world. The fitness of the world makes the information much easier to share. You can find a lot of recommendations to get information example: internet, paper, book, and soon. You will see that now, a lot of publisher in which print many kinds of book. Typically the book that recommended to your account is Computational Intelligence: A Methodological Introduction (Texts in Computer Science) this e-book consist a lot of the information in the condition of this world now. This specific book was represented how can the world has grown up. The words styles that writer make usage of to explain it is easy to understand. The writer made some analysis when he makes this book. That's why this book suitable all of you.

Thomas Baldwin:

Do you like reading a guide? Confuse to looking for your selected book? Or your book has been rare? Why so many concern for the book? But virtually any people feel that they enjoy with regard to reading. Some people likes studying, not only science book but additionally novel and Computational Intelligence: A

Methodological Introduction (Texts in Computer Science) or perhaps others sources were given expertise for you. After you know how the truly great a book, you feel wish to read more and more. Science publication was created for teacher as well as students especially. Those publications are helping them to increase their knowledge. In additional case, beside science guide, any other book likes Computational Intelligence: A Methodological Introduction (Texts in Computer Science) to make your spare time far more colorful. Many types of book like this one.

Maria Casillas:

A lot of publication has printed but it is different. You can get it by internet on social media. You can choose the most beneficial book for you, science, amusing, novel, or whatever by means of searching from it. It is called of book Computational Intelligence: A Methodological Introduction (Texts in Computer Science). You can contribute your knowledge by it. Without departing the printed book, it may add your knowledge and make a person happier to read. It is most essential that, you must aware about book. It can bring you from one location to other place.

Download and Read Online Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held #V9DF06E3SMQ

Read Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held for online ebook

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held books to read online.

Online Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held ebook PDF download

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held Doc

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held Mobipocket

Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held EPub