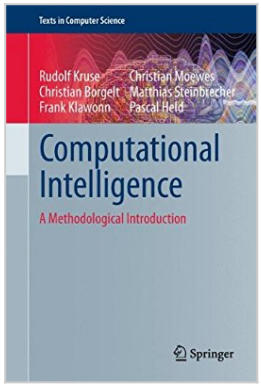

Computational Intelligence: A Methodological Introduction (Texts in Computer Science)

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

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

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 detailled 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:

Jerry Gavin:

This book untitled Computational Intelligence: A Methodological Introduction (Texts in Computer Science) to be one of several books this best seller in this year, honestly, that is because when you read this book you can get a lot of benefit in it. You will easily to buy this particular book in the book retailer or you can order it through online. The publisher with this book sells the e-book too. It makes you easier to read this book, because you can read this book in your Mobile phone. So there is no reason to you personally to past this reserve from your list.

Melvin Bragg:

Reading a book being new life style in this calendar year; every people loves to study a book. When you examine a book you can get a lots of benefit. When you read publications, you can improve your knowledge, due to the fact book has a lot of information in it. The information that you will get depend on what types of book that you have read. If you want to get information about your examine, you can read education books, but if you act like you want to entertain yourself read a fiction books, this kind of us novel, comics, in addition to soon. The Computational Intelligence: A Methodological Introduction (Texts in Computer Science) provide you with new experience in examining a book.

Jerry Bates:

You are able to spend your free time to study this book this reserve. This Computational Intelligence: A Methodological Introduction (Texts in Computer Science) is simple to deliver you can read it in the park, in the beach, train in addition to soon. If you did not have much space to bring the printed book, you can buy the particular e-book. It is make you better to read it. You can save often the book in your smart phone. So there are a lot of benefits that you will get when you buy this book.

William Vong:

This Computational Intelligence: A Methodological Introduction (Texts in Computer Science) is brand-new way for you who has fascination to look for some information as it relief your hunger of knowledge. Getting deeper you into it getting knowledge more you know or else you who still having little bit of digest in reading this Computational Intelligence: A Methodological Introduction (Texts in Computer Science) can be the light food for you personally because the information inside this kind of book is easy to get by anyone. These books create itself in the form which is reachable by anyone, yeah I mean in the e-book form. People who think that in book form make them feel sleepy even dizzy this reserve is the answer. So there is no in reading a guide especially this one. You can find actually looking for. It should be here for you actually. So , don't miss the idea! Just read this e-book style for your better life in addition to knowledge.

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

AGWT87CUHIZ: Computational Intelligence: A Methodological Introduction (Texts in Computer Science) By Rudolf Kruse, Christian Borgelt, Frank Klawonn, Christian Moewes, Matthias Steinbrecher, Pascal Held