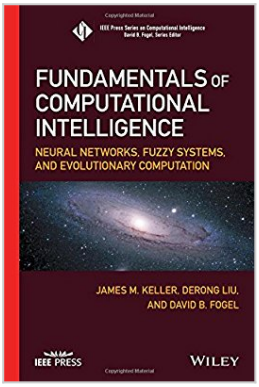

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence)

By James M. Keller, Derong Liu, David B. Fogel

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel

Provides an in-depth and even treatment of the three pillars of computational intelligence and how they relate to one another

This book covers the three fundamental topics that form the basis of computational intelligence: neural networks, fuzzy systems, and evolutionary computation. The text focuses on inspiration, design, theory, and practical aspects of implementing procedures to solve real-world problems. While other books in the three fields that comprise computational intelligence are written by specialists in one discipline, this book is co-written by current former Editor-in-Chief of IEEE Transactions on Neural Networks and Learning Systems, a former Editor-in-Chief of IEEE Transactions on Fuzzy Systems, and the founding Editor-in-Chief of IEEE Transactions on Evolutionary Computation. The coverage across the three topics is both uniform and consistent in style and notation.

- Discusses single-layer and multilayer neural networks, radial-basis function networks, and recurrent neural networks
- Covers fuzzy set theory, fuzzy relations, fuzzy logic interference, fuzzy clustering and classification, fuzzy measures and fuzzy integrals
- Examines evolutionary optimization, evolutionary learning and problem solving, and collective intelligence
- Includes end-of-chapter practice problems that will help readers apply methods and techniques to real-world problems

Fundamentals of Computational intelligence is written for advanced undergraduates, graduate students, and practitioners in electrical and computer engineering, computer science, and other engineering disciplines.

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence)

By James M. Keller, Derong Liu, David B. Fogel

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel

Provides an in-depth and even treatment of the three pillars of computational intelligence and how they relate to one another

This book covers the three fundamental topics that form the basis of computational intelligence: neural networks, fuzzy systems, and evolutionary computation. The text focuses on inspiration, design, theory, and practical aspects of implementing procedures to solve real-world problems. While other books in the three fields that comprise computational intelligence are written by specialists in one discipline, this book is co-written by current former Editor-in-Chief of IEEE Transactions on Neural Networks and Learning Systems, a former Editor-in-Chief of IEEE Transactions on Fuzzy Systems, and the founding Editor-in-Chief of IEEE Transactions on Evolutionary Computation. The coverage across the three topics is both uniform and consistent in style and notation.

- Discusses single-layer and multilayer neural networks, radial-basis function networks, and recurrent neural networks
- Covers fuzzy set theory, fuzzy relations, fuzzy logic interference, fuzzy clustering and classification, fuzzy measures and fuzzy integrals
- Examines evolutionary optimization, evolutionary learning and problem solving, and collective intelligence
- Includes end-of-chapter practice problems that will help readers apply methods and techniques to real-world problems

Fundamentals of Computational intelligence is written for advanced undergraduates, graduate students, and practitioners in electrical and computer engineering, computer science, and other engineering disciplines.

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel Bibliography

- Sales Rank: #1884343 in Books
- Published on: 2016-07-12
- Original language: English
- Dimensions: 9.60" h x 1.00" w x 6.30" l,
- Binding: Hardcover
- 378 pages

Editorial Review

From the Back Cover

Provides an in-depth and even treatment of the three pillars of computational intelligence and how they relate to one another

This book covers the three fundamental topics that form the basis of computational intelligence: neural networks, fuzzy systems, and evolutionary computation. The text focuses on inspiration, design, theory, and practical aspects of implementing procedures to solve real-world problems. While other books in the three fields that comprise computational intelligence are written by specialists in one discipline, this book is co-written by current former Editor-in-Chief of IEEE Transactions on Neural Networks and Learning Systems, a former Editor-in-Chief of IEEE Transactions on Fuzzy Systems, and the founding Editor-in-Chief of IEEE Transactions on Evolutionary Computation. The coverage across the three topics is both uniform and consistent in style and notation.

- Discusses single-layer and multilayer neural networks, radial-basis function networks, and recurrent neural networks
- Covers fuzzy set theory, fuzzy relations, fuzzy logic interference, fuzzy clustering and classification, fuzzy measures and fuzzy integrals
- Examines evolutionary optimization, evolutionary learning and problem solving, and collective intelligence
- Includes end-of-chapter practice problems that will help readers apply methods and techniques to real-world problems

Fundamentals of Computational intelligence is written for advanced undergraduates, graduate students, and practitioners in electrical and computer engineering, computer science, and other engineering disciplines.

About the Author

James Keller holds the University of Missouri Curators' Professorship in the Electrical and Computer Engineering and Computer Science Departments on the Columbia Campus, and is the R.L. Tatum Professor in the College of Engineering. Dr. Keller is a Life Fellow of the IEEE, a Fellow of the International Fuzzy Systems Association, and a former president of the North American Fuzzy Information Processing Society.

Derong Liu is a Professor of Electrical and Computer Engineering at the University of Illinois at Chicago, USA, and a Professor of Automation and Electrical Engineering at the University of Science and Technology Beijing, China. Dr. Liu is a Fellow of the IEEE and a Fellow of the International Neural Network Society. He has published 17 books, including *Reinforcement Learning and Approximate Dynamic Programming for Feedback Control* (2012, Wiley-IEEE Press). He is the Editor-in-Chief of Artificial Intelligence Review, and he served as the Editor-in-Chief of the IEEE Transactions on Neural Networks and Learning Systems (2010-2015).

David Fogel is the President of Natural Selection, Inc., CEO of Natural Selection Financial, Inc., a Fellow of the IEEE, and the series editor for the Wiley-IEEE Press Series on Computational Intelligence. Dr. Fogel has 30 years of experience pioneering contributions in the field of computational intelligence, and is co-inventor

of the EffectCheck® sentiment analysis system. He has written several books including *Evolutionary Computation: The Fossil Record* (1998) and *Evolutionary Computation Toward a New Philosophy of Machine Intelligence, 3rd Edition* (2005), both published by the Wiley-IEEE Press.

Users Review

From reader reviews:

Edward Thompson:

Inside other case, little persons like to read book Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence). You can choose the best book if you'd prefer reading a book. Providing we know about how is important a new book Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence). You can add understanding and of course you can around the world by the book. Absolutely right, since from book you can understand everything! From your country until finally foreign or abroad you will be known. About simple factor until wonderful thing you could know that. In this era, we can easily open a book or even searching by internet product. It is called e-book. You should use it when you feel weary to go to the library. Let's go through.

Patrick Duenas:

This Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) are generally reliable for you who want to be a successful person, why. The key reason why of this Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) can be one of the great books you must have is actually giving you more than just simple looking at food but feed you with information that possibly will shock your preceding knowledge. This book is usually handy, you can bring it all over the place and whenever your conditions in e-book and printed kinds. Beside that this Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) forcing you to have an enormous of experience such as rich vocabulary, giving you test of critical thinking that we realize it useful in your day pastime. So , let's have it and enjoy reading.

Robert McKay:

Hey guys, do you desires to finds a new book to learn? May be the book with the name Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) suitable to you? Typically the book was written by well-known writer in this era. The particular book untitled Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence)is the main one of several books which everyone read now. This kind of book was inspired a lot of people in the world. When you read this book you will enter the new dimension that you ever know prior to. The author explained their idea in the simple way, so all of people can easily to know the core of this publication. This book will give you a large amount of information about this world now. In order to see the represented of the world in this book.

Thelma Davis:

Playing with family in a park, coming to see the marine world or hanging out with buddies is thing that usually you will have done when you have spare time, then why you don't try thing that really opposite from that. One particular activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of information. Even you love Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence), you could enjoy both. It is fine combination right, you still desire to miss it? What kind of hang type is it? Oh come on its mind hangout people. What? Still don't get it, oh come on its known as reading friends.

Read Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel for online ebook

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel 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 Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel books to read online.

Online Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel ebook PDF download

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel Doc

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel Mobipocket

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) By James M. Keller, Derong Liu, David B. Fogel EPub