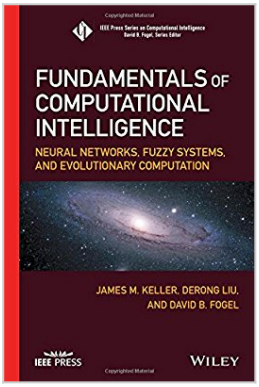

Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence)

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:

Harold Walsh:

A lot of people always spent their particular free time to vacation as well as go to the outside with them family members or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, or perhaps playing video games all day long. If you would like try to find a new activity honestly, that is look different you can read some sort of book. It is really fun for yourself. If you enjoy the book you read you can spent all day every day to reading a reserve. The book Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) it is rather good to read. There are a lot of people that recommended this book. These people were enjoying reading this book. In case you did not have enough space to bring this book you can buy the particular e-book. You can m0ore very easily to read this book through your smart phone. The price is not to fund but this book features high quality.

Austin Barnes:

Beside this kind of Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) in your phone, it may give you a way to get closer to the new knowledge or info. The information and the knowledge you will got here is fresh from your oven so don't possibly be worry if you feel like an old people live in narrow small town. It is good thing to have Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) because this book offers for your requirements readable information. Do you sometimes have book but you rarely get what it's about. Oh come on, that would not happen if you have this inside your hand. The Enjoyable blend here cannot be questionable, similar to treasuring beautiful island. So do you still want to miss the idea? Find this book and also read it from now!

Leslie Woodson:

This Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) is brand-new way for you who has attention to look for some information given it relief your hunger associated with. Getting deeper you upon it getting knowledge more you know or you who still having little digest in reading this Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) can be the light food for you because the information inside this kind of book is easy to get by anyone. These books produce itself in the form which can be reachable by anyone, sure I mean in the e-book form. People who think that in reserve form make them feel tired even dizzy this book is the answer. So you cannot find any in reading a e-book especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss the item! Just read this e-book sort for your

better life along with knowledge.

Mary Kasten:

E-book is one of source of expertise. We can add our knowledge from it. Not only for students and also native or citizen will need book to know the update information of year to year. As we know those ebooks have many advantages. Beside most of us add our knowledge, also can bring us to around the world. By book Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence) we can take more advantage. Don't you to definitely be creative people? To be creative person must want to read a book. Just choose the best book that acceptable with your aim. Don't possibly be doubt to change your life with that book Fundamentals of Computational Intelligence: Neural Networks, Fuzzy Systems, and Evolutionary Computation (IEEE Press Series on Computational Intelligence). You can more pleasing than now.

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