

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science)

By Andrzej Bargiela, Witold Pedrycz



Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz

This book is about Granular Computing (GC) - an emerging conceptual and of information processing. As the name suggests, GC concerns computing paradigm processing of complex information entities - information granules. In essence, information granules arise in the process of abstraction of data and derivation of knowledge from information. Information granules are everywhere. We commonly use granules of time (seconds, months, years). We granulate images; millions of pixels manipulated individually by computers appear to us as granules representing physical objects. In natural language, we operate on the basis of word-granules that become crucial entities used to realize interaction and communication between humans. Intuitively, we sense that information granules are at the heart of all our perceptual activities. In the past, several formal frameworks and tools, geared for processing specific information granules, have been proposed. Interval analysis, rough sets, fuzzy sets have all played important role in knowledge representation and processing. Subsequently, information granulation and information granules arose in numerous application domains. Well-known ideas of rule-based systems dwell inherently on information granules. Qualitative modeling, being one of the leading threads of AI, operates on a level of information granules. Multi-tier architectures and hierarchical systems (such as those encountered in control engineering), planning and scheduling systems all exploit information granularity. We also utilize information granules when it comes to functionality granulation, reusability of information and efficient ways of developing underlying information infrastructures.

 [Download Granular Computing: An Introduction \(The Springer ...pdf](#)

 [Read Online Granular Computing: An Introduction \(The Springe ...pdf](#)

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science)

By Andrzej Bargiela, Witold Pedrycz

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz

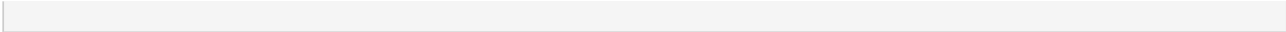
This book is about Granular Computing (GC) - an emerging conceptual and of information processing. As the name suggests, GC concerns computing paradigm processing of complex information entities - information granules. In essence, information granules arise in the process of abstraction of data and derivation of knowledge from information. Information granules are everywhere. We commonly use granules of time (seconds, months, years). We granulate images; millions of pixels manipulated individually by computers appear to us as granules representing physical objects. In natural language, we operate on the basis of word-granules that become crucial entities used to realize interaction and communication between humans. Intuitively, we sense that information granules are at the heart of all our perceptual activities. In the past, several formal frameworks and tools, geared for processing specific information granules, have been proposed. Interval analysis, rough sets, fuzzy sets have all played important role in knowledge representation and processing. Subsequently, information granulation and information granules arose in numerous application domains. Well-known ideas of rule-based systems dwell inherently on information granules. Qualitative modeling, being one of the leading threads of AI, operates on a level of information granules. Multi-tier architectures and hierarchical systems (such as those encountered in control engineering), planning and scheduling systems all exploit information granularity. We also utilize information granules when it comes to functionality granulation, reusability of information and efficient ways of developing underlying information infrastructures.

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz Bibliography

- Rank: #11919928 in Books
- Brand: Andrzej Bargiela Witold Pedrycz
- Published on: 2002-11-30
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.06" w x 6.14" l, 1.86 pounds
- Binding: Hardcover
- 452 pages

 [Download Granular Computing: An Introduction \(The Springer ...pdf](#)

 [Read Online Granular Computing: An Introduction \(The Springe ...pdf](#)



Download and Read Free Online Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz

Editorial Review

Users Review

From reader reviews:

Viola Coghlan:

Why don't make it to be your habit? Right now, try to ready your time to do the important work, like looking for your favorite guide and reading a reserve. Beside you can solve your short lived problem; you can add your knowledge by the guide entitled Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science). Try to the actual book Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) as your close friend. It means that it can for being your friend when you experience alone and beside that course make you smarter than before. Yeah, it is very fortunated to suit your needs. The book makes you more confidence because you can know every little thing by the book. So , we need to make new experience in addition to knowledge with this book.

Wilda Alexander:

The book with title Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) includes a lot of information that you can find out it. You can get a lot of gain after read this book. This book exist new information the information that exist in this e-book represented the condition of the world currently. That is important to yo7u to be aware of how the improvement of the world. This specific book will bring you inside new era of the globalization. You can read the e-book with your smart phone, so you can read it anywhere you want.

Cheryl Alexander:

Your reading 6th sense will not betray a person, why because this Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) e-book written by well-known writer who knows well how to make book which might be understand by anyone who else read the book. Written inside good manner for you, still dripping wet every ideas and creating skill only for eliminate your personal hunger then you still uncertainty Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) as good book but not only by the cover but also by content. This is one reserve that can break don't judge book by its handle, so do you still needing another sixth sense to pick this particular!?! Oh come on your studying sixth sense already told you so why you have to listening to an additional sixth sense.

John Razo:

E-book is one of source of understanding. We can add our understanding from it. Not only for students but

also native or citizen require book to know the upgrade information of year for you to year. As we know those ebooks have many advantages. Beside many of us add our knowledge, can bring us to around the world. Through the book Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) we can acquire more advantage. Don't one to be creative people? To become creative person must prefer to read a book. Just simply choose the best book that acceptable with your aim. Don't become doubt to change your life at this time book Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science). You can more appealing than now.

Download and Read Online Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz #S5ZAPO2YHMI

Read Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz for online ebook

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz 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 Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz books to read online.

Online Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz ebook PDF download

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz Doc

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz Mobipocket

Granular Computing: An Introduction (The Springer International Series in Engineering and Computer Science) By Andrzej Bargiela, Witold Pedrycz EPub