Green Information Technology: A Sustainable Approach

Mohammad Dastbaz, Colin Pattinson, Babak Akhgar

Green Information Technology: A Sustainable Approach

Mohammad Dastbaz, Colin Pattinson, Babak Akhgar

Green Information Technology: A Sustainable Approach Mohammad Dastbaz, Colin Pattinson, Babak Akhgar

We are living in the era of "Big Data" and the computing power required to deal with "Big Data" both in terms of its energy consumption and technical complexity is one of the key areas of research and development. The U.S. Environmental Protection Agency estimates that centralized computing infrastructures (data centres) currently use 7 giga watts of electricity during peak loads. This translates into about 61 billion kilowatt hours of electricity used. By the EPA's estimates, power-hungry data centres consume the annual output of 15 average-sized power plants. One of the top constraints to increasing computing power, besides the ability to cool, is simply delivering enough power to a given physical space.

Green Information Technology: A Sustainable Approach offers in a single volume a broad collection of practical techniques and methodologies for designing, building and implementing a green technology strategy in any large enterprise environment, which up until now has been scattered in difficult-to-find scholarly resources. Included here is the latest information on emerging technologies and their environmental impact, how to effectively measure sustainability, discussions on sustainable hardware and software design, as well as how to use big data and cloud computing to drive efficiencies and establish a framework for sustainability in the information technology infrastructure.

Written by recognized experts in both academia and industry, *Green Information Technology: A Sustainable Approach* is a must-have guide for researchers, computer architects, computer engineers and IT professionals with an interest in greater efficiency with less environmental impact.

- Introduces the concept of using green procurement and supply chain programs in the IT infrastructure.
- Discusses how to use big data to drive efficiencies and establish a framework for sustainability in the information technology infrastructure.
- Explains how cloud computing can be used to consolidate corporate IT environments using large-scale shared infrastructure reducing the overall environmental impact and unlocking new efficiencies.
- Provides specific use cases for Green IT such as data center energy efficiency and cloud computing sustainability and risk.

Download and Read Free Online Green Information Technology: A Sustainable Approach Mohammad Dastbaz, Colin Pattinson, Babak Akhgar

---

From reader reviews:

Karen Ruiz:

Information is provisions for individuals to get better life, information these days can get by anyone with everywhere. The information can be a understanding or any news even a concern. What people must be consider when those information which is inside former life are hard to be find than now is taking seriously which one is appropriate to believe or which one the particular resource are convinced. If you get the unstable resource then you have it as your main information you will have huge disadvantage for you. All of those possibilities will not happen in you if you take Green Information Technology: A Sustainable Approach as the daily resource information.

Ruben Hardy:

Spent a free the perfect time to be fun activity to do! A lot of people spent their sparetime with their family, or their very own friends. Usually they performing activity like watching television, about to beach, or picnic inside park. They actually doing same thing every week. Do you feel it? Do you want to something different to fill your personal free time/ holiday? May be reading a book may be option to fill your cost-free time/ holiday. The first thing you will ask may be what kinds of reserve that you should read. If you want to attempt look for book, may be the e-book untitled Green Information Technology: A Sustainable Approach can be excellent book to read. May be it is usually best activity to you.

Clifford Walsh:

That guide can make you to feel relax. This particular book Green Information Technology: A Sustainable Approach was bright colored and of course has pictures on there. As we know that book Green Information Technology: A Sustainable Approach has many kinds or variety. Start from kids until adolescents. For example Naruto or Detective Conan you can read and feel that you are the character on there. Therefore not at all of book usually are make you bored, any it makes you feel happy, fun and unwind. Try to choose the best book in your case and try to like reading that will.

Mary Perez:

Reading a guide make you to get more knowledge from it. You can take knowledge and information coming from a book. Book is prepared or printed or created from each source that filled update of news. Within this modern era like today, many ways to get information are available for you. From media social like newspaper, magazines, science reserve, encyclopedia, reference book, novel and comic. You can add your knowledge by that book. Are you ready to spend your spare time to spread out your book? Or just looking for the Green Information Technology: A Sustainable Approach when you needed it?

Download and Read Online Green Information Technology: A Sustainable Approach Mohammad Dastbaz, Colin Pattinson, Babak Akhgar #YE7R4N392J1

Read Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar for online ebook

Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar 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 Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar books to read online.

Online Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar ebook PDF download

Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar Doc

Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar Mobipocket

Green Information Technology: A Sustainable Approach by Mohammad Dastbaz, Colin Pattinson, Babak Akhgar EPub