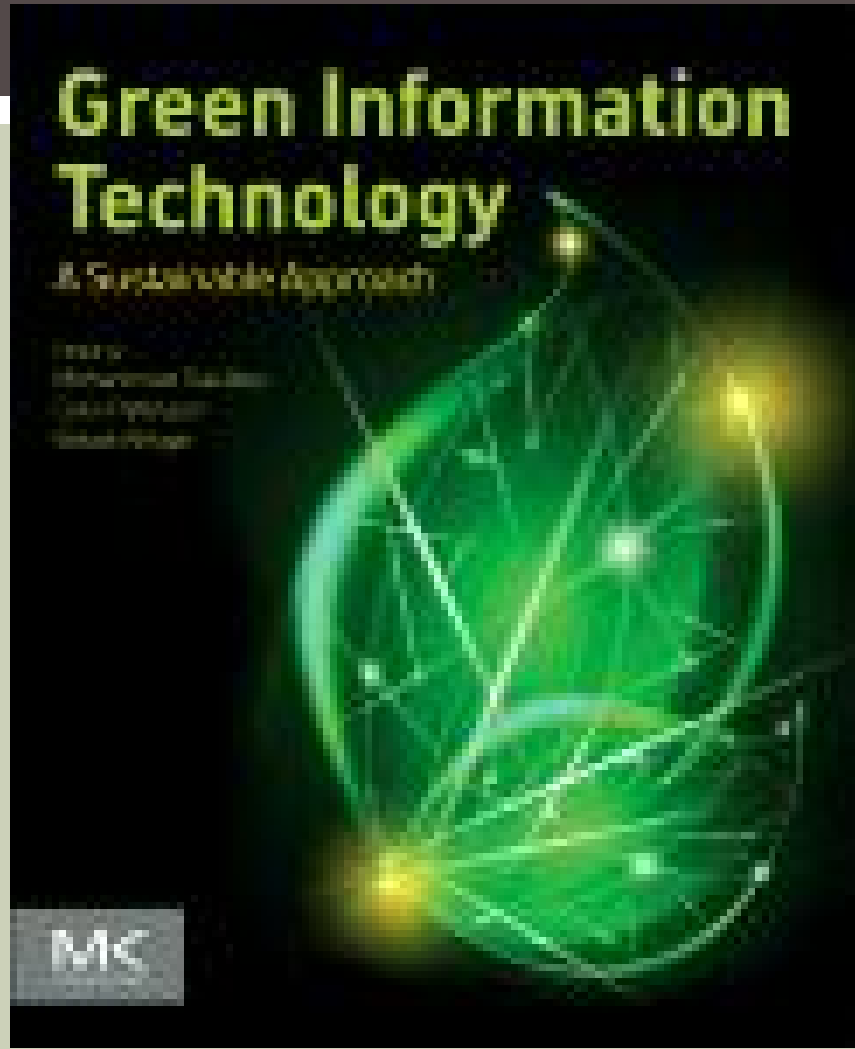


GREEN INFORMATION TECHNOLOGY: A SUSTAINABLE APPROACH

Prof. Mohammad
Dastbaz
Leeds Beckett U

Prof. Colin
Pattinson
Leeds Beckett U

Prof. Babak Akhgar
Sheffield Hallam U



Release Date: 11 Mar 2015
Imprint: Morgan Kaufmann
Print Book ISBN :9780128013793
eBook ISBN :9780128016718
Pages:348

TARGET AUDIENCE

Researchers, computer architects, computer engineers and IT professionals

TABLE OF CONTENTS

- **Section 1 - Green IT: Emerging Technologies and Challenges**

Chapter 1 - Green ICT: History, Agenda and Challenges Ahead

Mohammad Dastbaz

Chapter 2 - Emerging Technologies and their Environmental Impact

[Colin Pattinson](#)

- **Section 2 - Green IT: Law and Measurement**
Chapter 3 - Measurements and Sustainability
Eric Rondeau, Francis Lepage, Jean-Philippe Georges, Gerrard Morel

Chapter 4 - The Law of Green IT
Eva Julia Lohse, Erlangen—Nürnberg

Chapter 5 - Quantitative and Systemic Methods for Modelling Sustainability
Amin Hosseinian-Far, Hamid Jahankhani



- **Section 3 - Sustainable Computing, Cloud and Big Data**

Chapter 6- Sustainable Cloud Computing
Konstantinos Domdouzis

Chapter 7- Sustainable Software Design
Michael Engel

**Chapter 8 - Achieving the green theme through the use of traffic
characterisation in data centres**
Kiran Voderhobli

■ **Section 5 - Case Studies**

Chapter 11 - Automated Demand Response, Smart Grid Technologies and Sustainable Energy Solutions
Azad Camyab

Chapter 12 - Critical Issues for Data Center Energy Efficiency
[Pattinson, C.](#), [Kor, A. L.](#), and Cross, R.

Chapter 13 - Community Wide Area Network and Mobile ISP
[Pattinson, C.](#), [Kor, A. L.](#), and Braddock, R.

Chapter 14 - Thin-client and Energy Efficiency
[Pattinson, C.](#), Cross, R., and [Kor, A. L.](#)

Chapter 15 - Cloud Computing, Sustainability and Risk
Babak Akhgar, Ashkan Tafaghodi, Konstantinos Domdouzis



- **Section 4 - Future Solutions**

Chapter 9 - Energy Harvesting and the Internet of Things

Christian DeFeo

Chapter 10 - 3D Printing and Sustainable Product Development (Factory 2.0)

Steve Wilkinson and Nick Cope

ABSTRACT FOR EACH CHAPTER

- <http://www.sciencedirect.com/science/book/9780128013793>

BIOGRAPHIES OF CONTRIBUTORS

- <http://www.sciencedirect.com/science/article/pii/B9780128013793099885>

AMAZON

- http://www.amazon.com/Green-Information-Technology-Sustainable-Approach/dp/0128013796/ref=sr_1_1?s=books&ie=UTF8&qid=1434667434&sr=1-1&keywords=Green+information+technologies&pebp=1434667450839&perid=1TX110DK40WBQVGVRRZQ
- Cost \$130

WHAT NEXT?

- A PERCCOM BOOK!

Title: Sustainability for PERCCOM?

Editors – Professors and Lecturers

Contributors – PERCCOM Students (based on theses)

Number of pages (20-30)?

Submit to Elsevier? Springer?

Deadline for Abstract and Title (31st July 2015)

Deadline for Camera Copy (30th Nov 2015)