



# **Large-scale Distributed Systems and Energy Efficiency: A Holistic View (Wiley Series on Parallel and Distributed Computing)**

*Jean-Marc Pierson*

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**Large-scale Distributed Systems and Energy Efficiency: A Holistic View (Wiley Series on Parallel and Distributed Computing)** Jean-Marc Pierson

**Addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks**

With concerns about global energy consumption at an all-time high, improving computer networks energy efficiency is becoming an increasingly important topic. *Large-Scale Distributed Systems and Energy Efficiency: A Holistic View* addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks. After an introductory overview of the energy demands of current Information and Communications Technology (ICT), individual chapters offer in-depth analyses of such topics as cloud computing, green networking (both wired and wireless), mobile computing, power modeling, the rise of green data centers and high-performance computing, resource allocation, and energy efficiency in peer-to-peer (P2P) computing networks.

- Discusses measurement and modeling of the energy consumption method
- Includes methods for energy consumption reduction in diverse computing environments
- Features a variety of case studies and examples of energy reduction and assessment

Timely and important, *Large-Scale Distributed Systems and Energy Efficiency* is an invaluable resource for ways of increasing the energy efficiency of computing systems and networks while simultaneously reducing the carbon footprint.

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