

Harnessing Green IT: Principles and Practices

San Murugesan

Adopting a holistic approach to greening IT is our responsibility toward creating a more sustaining environment.

Enterprises, governments, and societies at large have a new important agenda: tackling environmental issues and adopting environmentally sound practices. Over the years, the use of IT has exploded in several areas, improving our lives and work and offering convenience along with several other benefits.

We are passionate about advances in and widespread adoption of IT. However, IT has been contributing to environmental problems, which most people don't realize. Computers and other IT infrastructure consume significant amounts of electricity, placing a heavy burden on our electric grids and contribut-

ing to greenhouse gas emissions. Additionally, IT hardware poses severe environmental problems both during its production and its disposal. IT is a significant and growing part of the environmental problems we face today. We are obliged to minimize or eliminate where possible the environmental impact of IT to help create a more sustainable environment.

To reduce IT's environmental problems and to create a sustainable environment, we call upon the IT sector as well as every computer user to green their IT systems, as well as the way they use these systems. We are legally, ethically, and socially required to green our IT products, applications, services, and practices. Green IT benefits the environment by improving energy efficiency, lowering greenhouse gas emissions, using less harmful materials, and encouraging

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Harnessing Green It Principles And Practices:

Harnessing Green IT San Murugesan, G. R. Gangadharan, 2012-08-31 Ultimately this is a remarkable book a practical testimonial and a comprehensive bibliography rolled into one It is a single bright sword cut across the various murky green IT topics And if my mistakes and lessons learned through the green IT journey are any indication this book will be used every day by folks interested in greening IT Simon Y Liu Ph D Ed D Editor in Chief IT Professional Magazine IEEE Computer Society Director U S National Agricultural Library This book presents a holistic perspective on Green IT by discussing its various facets and showing how to strategically embrace it *Harnessing Green IT Principles and Practices* examines various ways of making computing and information systems greener environmentally sustainable as well as several means of using Information Technology IT as a tool and an enabler to improve the environmental sustainability The book focuses on both greening of IT and greening by IT complimentary approaches to attaining environmental sustainability In a single volume it comprehensively covers several key aspects of Green IT green technologies design standards maturity models strategies and adoption and presents a clear approach to greening IT encompassing green use green disposal green design and green manufacturing It also illustrates how to strategically apply green IT in practice in several areas Key Features Presents a comprehensive coverage of key topics of importance and practical relevance green technologies design standards maturity models strategies and adoption Highlights several useful approaches to embracing green IT in several areas Features chapters written by accomplished experts from industry and academia who have first hand knowledge and expertise in specific areas of green IT Presents a set of review and discussion questions for each chapter that will help the readers to examine and explore the green IT domain further Includes a companion website providing resources for further information and presentation slides This book will be an invaluable resource for IT Professionals academics students researchers project leaders managers IT business executives CIOs CTOs and anyone interested in Green IT and harnessing it to enhance our environment

Harnessing Green IT San Murugesan, G. R. Gangadharan, 2012-10-22 Ultimately this is a remarkable book a practical testimonial and a comprehensive bibliography rolled into one It is a single bright sword cut across the various murky green IT topics And if my mistakes and lessons learned through the green IT journey are any indication this book will be used every day by folks interested in greening IT Simon Y Liu Ph D Ed D Editor in Chief IT Professional Magazine IEEE Computer Society Director U S National Agricultural Library This book presents a holistic perspective on Green IT by discussing its various facets and showing how to strategically embrace it *Harnessing Green IT Principles and Practices* examines various ways of making computing and information systems greener environmentally sustainable as well as several means of using Information Technology IT as a tool and an enabler to improve the environmental sustainability The book focuses on both greening of IT and greening by IT complimentary approaches to attaining environmental sustainability In a single volume it comprehensively covers several key aspects of Green IT green technologies design standards maturity

models strategies and adoption and presents a clear approach to greening IT encompassing green use green disposal green design and green manufacturing It also illustrates how to strategically apply green IT in practice in several areas Key Features Presents a comprehensive coverage of key topics of importance and practical relevance green technologies design standards maturity models strategies and adoption Highlights several useful approaches to embracing green IT in several areas Features chapters written by accomplished experts from industry and academia who have first hand knowledge and expertise in specific areas of green IT Presents a set of review and discussion questions for each chapter that will help the readers to examine and explore the green IT domain further Includes a companion website providing resources for further information and presentation slides This book will be an invaluable resource for IT Professionals academics students researchers project leaders managers IT business executives CIOs CTOs and anyone interested in Green IT and harnessing it to enhance our environment

Green IT - Status Quo und Anwendungsmöglichkeiten in Unternehmen Tobias Roth,2022-12-29 In Anbetracht des stetig voranschreitenden Klimawandels r cken Bestrebungen zur Reduzierung der Umweltbelastung immer mehr in den Fokus der ffentlichkeit so auch in der Informations und Kommunikationstechnik Aufgrund des ver nderten Konsumverhaltens und vielerorts gesetzlicher Aspekte werden im Rahmen unternehmerischer Entscheidungen Ma nahmen zur Reduzierung des eigenen Umwelteinflusses immer st rker gewichtet Das Konzept der Green IT bietet Unternehmen verschiedene Anwendungsm glichkeiten im Zusammenhang mit der Informations und Kommunikationstechnik mit dem Ziel den eigenen Grad der Nachhaltigkeit zu f rdern Diese Bachelorarbeit f hrt das Konzept der Green IT auf Basis der Literatur ein und definiert einen aktuellen Zustand den Status Quo der Green IT Es werden au erdem Anwendungsm glichkeiten der Green IT f r Unternehmen identifiziert und eingeordnet Durch die Erhebung von Daten und Forschungsergebnissen aus der Literatur wird die Relevanz der Anwendungsm glichkeiten belegt und eine kologische sowie konomische Bewertung durchgef hrt Diese Arbeit zeigt dass insbesondere die Nutzung von Videokonferenzen und die nachhaltige Beschaffung von Hardware kologisch sowie konomisch effektive Anwendungsm glichkeiten der Green IT f r Unternehmen sind Es ist erkennbar dass Unternehmen durch den Einsatz von Informations und Kommunikationstechnik Ressourcen einsparen und damit ihre Umweltbelastung verringern sowie einen Beitrag zum Schutz der Umwelt leisten k nnen

Green IT Strategies and Applications Bhuvan Unhelkar,2016-04-19 Bhuvan Unhelkar takes you on an all encompassing voyage of environmental sustainability and Green IT Sharing invaluable insights gained during two battle tested decades in the information and communication technologies industry he provides a comprehensive examination of the wide ranging aspects of Green IT from switching off monitors virtualizin [Handbook of Research on Green ICT: Technology, Business and Social Perspectives](#) Unhelkar, B.,2010-10-31 This handbook coalesces worldwide investigations thoughts and practices in the area of Green ICT covering the technical advances methodological innovations and social changes that result in enhancements and improvements in business strategies social policies and technical implementations

Provided by publisher **Nachhaltiges Informationsmanagement** Koray Ereke, 2012 **Green IT Engineering: Concepts, Models, Complex Systems Architectures** Vyacheslav Kharchenko, Yuriy Kondratenko, Janusz

Kacprzyk, 2016-09-21 This volume provides a comprehensive state of the art overview of a series of advanced trends and concepts that have recently been proposed in the area of green information technologies engineering as well as of design and development methodologies for models and complex systems architectures and their intelligent components The contributions included in the volume have their roots in the authors presentations and vivid discussions that have followed the presentations at a series of workshop and seminars held within the international TEMPUS project GreenCo project in United Kingdom Italy Portugal Sweden and the Ukraine during 2013 2015 and at the 1st 5th Workshops on Green and Safe Computing GreenSCom held in Russia Slovakia and the Ukraine The book presents a systematic exposition of research on principles models components and complex systems and a description of industry and society oriented aspects of the green IT engineering A chapter oriented structure has been adopted for this book following a vertical view of the green IT from hardware CPU and FPGA and software components to complex industrial systems The 15 chapters of the book are grouped into five sections 1 Methodology and Principles of Green IT Engineering for Complex Systems 2 Green Components and Programmable Systems 3 Green Internet Computing Cloud and Communication Systems 4 Modeling and Assessment of Green Computer Systems and Infrastructures and 5 Green PLC Based Systems for Industry Applications The chapters provide an easy to follow comprehensive introduction to the topics that are addressed including the most relevant references so that anyone interested in them can start the study by being able to easily find an introduction to the topic through these references At the same time all of them correspond to different aspects of the work in progress being carried out by various research groups throughout the world and therefore provide information on the state of the art of some of these topics challenges and perspectives **Digitalen Wandel gestalten** Andrea Lochmahr, Patrick Müller, Patrick Planing, Tobias

Popovic, 2019-04-08 Der digitale Wandel bringt grundlegende Veränderung für Wirtschaft und Gesellschaft mit sich Um auf die resultierenden Chancen und Herausforderungen Antworten zu finden bedarf es neuer transformativer Lösungsansätze Dieser Sammelband zeigt anhand einer Vielzahl von unterschiedlichen Lösungsbeispielen wie sich der digitale Wandel aktiv gestalten lässt Es werden neue Ansätze aus der Forschung mit spannenden Einblicken der Praxis kombiniert Die Beiträge umfassen Fragestellungen aus dem Innovationsmanagement dem Human Resource Management der Unternehmensführung und Unternehmensfinanzierung der Logistik sowie dem Marketing Ein besonderer Schwerpunkt liegt auf neuartigen transdisziplinären Lösungen die durch die Nutzung von interdisziplinären Methoden und interaktiver Einbeziehung relevanter Anspruchsgruppen entstehen können Die daraus resultierenden Ideen und Lösungsansätze werden für Forschung und Praxis fachgerecht und anwendungsorientiert dargestellt Dieses Buch bietet deshalb Praktikern Studierenden und Forschenden wertvolle Einblicke in die Möglichkeiten den digitalen Wandel durch innovative Ansätze erfolgreich zu gestalten

Advanced Methodologies and Technologies in Engineering and Environmental Science Khosrow-Pour, D.B.A.,

Mehdi, 2018-09-07 The ever increasing awareness and growing focus on environmental issues such as climate change and energy use is bringing about an urgency in expanding research to provide possible solutions to these problems Through current engineering research and emerging technologies scientists work to combat modern environmental and ecological problems plaguing the globe Advanced Methodologies and Technologies in Engineering and Environmental Science provides emerging research on the current and forthcoming trends in engineering and environmental sciences to resolve several issues plaguing researchers such as fossil fuel emission and climate change While highlighting these challenges including chemical toxicity environmental responsibility readers will learn how engineering applications can be used across disciplines to aid in reducing environmental hazards This book is a vital resource for engineers researchers professors academicians and environmental scientists seeking current research on how engineering tools and technologies can be applied to environmental issues

Strategic information systems management for environmental sustainability : enhancing firm competitiveness with Green IS Löser, Fabian, 2015-07-06 During the last three decades information and communication technologies have fundamentally changed the way we work live and communicate The ubiquity of internet services which become increasingly interactive and complex together with enhanced connectivity facilitated by innovative mobile devices induces an ever rising demand for computing storage and data transmission capacities Today information systems IS constitute the backbone of the globalized economy and are indispensable for modern business and production processes At the same time environmental sustainability has evolved as the most pressing societal challenge of the 21st century in particular due to the looming threats of climate change By virtue of their global influence and reach business companies significantly contribute to the creation of environmental problems but owing to their organizational knowledge capabilities and resources they also have the capacity and ability to play a key role in shaping the path towards a more sustainable development The companies leading the way have noticed that corporate sustainability is not necessarily a burden that negatively impacts their bottom line If strategically managed environmental product and process innovations can decrease operational costs enhance corporate reputation and differentiate from competitors With regard to environmental sustainability IS play a contradictory role on the one hand the manufacturing operation and disposal of information technology IT infrastructure are responsible for serious environmental impacts from the mining of conflict minerals to carbon dioxide emissions that equal those of the airline industry to enormous amounts of toxic e waste On the other hand IS are perceived as key enablers of a green economy environmental management systems and the reengineering of business processes can substantially reduce the environmental impacts of business organizations while technological innovations provide opportunities to decrease the ecological footprint of end user products and services Many organizations have started to implement first environmental measures to decrease IT energy consumption and to reduce operational costs mostly in an

unstructured and uncoordinated manner though Although Green IS practices feature a considerable potential to increase corporate environmentalism while creating promising business opportunities the adoption of enterprise wide cross functional initiatives aimed at implementing Green IS has been rather slow Economic uncertainties regarding the long term effects of Green IS adoption and the lack of appropriate management frameworks have been identified as main inhibitors of an encompassing implementation of Green IS initiatives throughout the enterprise In this context this thesis addresses relevant research gaps contributes to theory development in the evolving Green IS research discipline develops practice oriented management frameworks and emphasizes the importance of following a strategic approach to leverage the competitive potential of Green IS This cumulative thesis comprises an introduction that includes a literature review and a pre study four theory based conceptual research articles and two empirical studies one of them building on qualitative exploratory case study research whereas the other relies on quantitative data which has been analyzed with structural equation modeling This thesis targets four specific research goals to advance theory building in Green IS research and to promote the adoption of Green IS in practice First this thesis clarifies and defines the central terms and key concepts Green IT Green IS Green IS strategy and Green IS practices drawing on a transdisciplinary research approach Second the most important challenges and inhibitors of Green IS adoption are identified and characterized In particular the lack of management frameworks which encourage a holistic implementation that follows a strategic rationale the complexity of strategic Green IS alignment the multi dimensional performance impacts of cross functional initiatives and above all the uncertainty relating to the business case of Green IS practices are identified as the most pressing challenges Third current actions of business firms to address these challenges are examined Building on exploratory case study research distinctive Green IS strategies are identified in managerial practice Most notably the empirical insights from quantitative survey research suggest a positive relationship between Green IS adoption and firm competitiveness thus decreasing the economic uncertainty which inhibits the implementation of far reaching environmental initiatives Fourth practice oriented management frameworks are developed The fine grained Green IS strategy concept advises the formulation of strategies addressing the corporate competitive and functional management level The proposed typology of four Green IS strategies illustrates distinct strategic options from which executives can choose under consideration of their competitive targets and the firm specific context To allow for consistency of Green IS strategies the presented alignment framework facilitates coherence with economic and environmental corporate goals Furthermore the actors roles and responsibilities relevant to the alignment process are described In addition a management framework for the holistic adoption of Green IS which specifies decisive management areas and distinguishes between three degrees of environmental impacts is presented along with a comprehensive catalogue of Green IS implementation measures As a consequence this research offers both empirical insights and conceptual models to advance the adoption of Green IS initiatives thus meeting the challenges of climate change and turning corporate

sustainability into a business opportunity Informationssysteme IS zeigen in Bezug auf kologische Nachhaltigkeit gegensätzliche Eigenschaften Einerseits verursachen die Herstellung der Betrieb sowie die Entsorgung von Informationstechnologie IT Infrastrukturen schwerwiegende negative Umweltauswirkungen Vom Abbau von Konfliktmineralien über Kohlendioxidemissionen bis hin zu beträchtlichen Mengen giftigen Elektroschrotts Andererseits werden IS als Schlüsseltechnologien für eine nachhaltige Wirtschaft gesehen Umweltmanagementsysteme und die Umgestaltung von Geschäftsprozessen können den kologischen Fußabdruck von Organisationen bedeutend verringern Zudem eröffnen technologische Innovationen neuartige Möglichkeiten die Umweltauswirkungen von Produkten und Dienstleistungen über den gesamten Lebenszyklus hinweg zu senken Zahlreiche Organisationen haben damit begonnen einzelne Green IT Maßnahmen zu implementieren um den Energieverbrauch und operative Kosten zu senken Allerdings verfolgen die meisten Unternehmen hierbei keinen strukturierten oder strategischen Ansatz Obwohl Green IS Initiativen beachtliche Potentiale zur Verbesserung der kologischen Nachhaltigkeit von Organisationen bieten und gleichzeitig vielversprechende wirtschaftliche Chancen eröffnen schreitet die Umsetzung von bereichsbergreifenden Green IS Maßnahmen in Unternehmen nur langsam voran ökonomische Unsicherheiten in Bezug auf die Rentabilität derartiger Maßnahmen sowie der Mangel an adäquaten Management Frameworks werden in diesem Zusammenhang als zentrale Hinderungsgründe für eine strategische und ganzheitliche Umsetzung von Green IS Initiativen identifiziert Diese Dissertation adressiert diese Hinderungsgründe schafft Schlüsselkonzepte für den neuen Green IS Forschungszweig entwickelt praxisorientierte Management Frameworks und hebt die Bedeutung eines strategischen Ansatzes bei der Implementierung von Green IS hervor Diese Forschungsarbeit offeriert empirische Einblicke wie auch konzeptionelle Modelle um die Umsetzung ganzheitlicher Green IS Initiativen in Organisationen voranzutreiben Unternehmen haben somit die Chance den Herausforderungen des Klimawandels verantwortungsvoll zu begegnen und gleichzeitig durch eine nachhaltige Unternehmensführung Wettbewerbsvorteile zu generieren

Green Business: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-02-01 The issues of sustainability and corporate social responsibility have become vital discussions in many industries within the public and private sectors In the business realm incorporating practices that serve the overall community and ecological wellbeing can also allow businesses to flourish economically and socially Green Business Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises focusing on how green approaches improve operations Highlighting a range of topics such as corporate sustainability green enterprises and circular economy this multi volume book is ideally designed for business executives business and marketing professionals business managers academicians and researchers actively involved in the business industry

Proceedings of the Future Technologies Conference (FTC) 2022, Volume 3 Kohei Arai, 2022-10-13 The seventh Future Technologies Conference 2022

was organized in a hybrid mode It received a total of 511 submissions from learned scholars academicians engineers scientists and students across many countries The papers included the wide arena of studies like Computing Artificial Intelligence Machine Vision Ambient Intelligence and Security and their jaw breaking application to the real world After a double blind peer review process 177 submissions have been selected to be included in these proceedings One of the prominent contributions of this conference is the confluence of distinguished researchers who not only enthralled us by their priceless studies but also paved way for future area of research The papers provide amicable solutions to many vexing problems across diverse fields They also are a window to the future world which is completely governed by technology and its multiple applications We hope that the readers find this volume interesting and inspiring and render their enthusiastic support towards it

Green Computing in Smart Cities: Simulation and Techniques Balamurugan Balusamy,Naveen Chilamkurti,Seifedine Kadry,2020-09-07 The book collects the latest research and thinking from international experts on green computing and the smart city The financial and environmental costs of energy are a concern in smart cities due to the high usage of computing technology security IoT communications traffic and other technologies This book tackles this problem with a focus on computing reporting on various approaches being taken worldwide illustrated by several international case studies demonstrating these approaches Researchers use this book as an up to date reference and engineers use it as a guide for the design and implementation of real solutions

Making Healthcare Green Nina S. Godbole,John P. Lamb,2018-08-14 This book offers examples of how data science big data analytics and cloud technology can be used in healthcare to significantly improve a hospital s IT Energy Efficiency along with information on the best ways to improve energy efficiency for healthcare in a cost effective manner The book builds on the work done in other sectors mainly data centers in effectively measuring and improving IT energy efficiency and includes case studies illustrating power and cooling requirements within Green Healthcare Making Healthcare Green will appeal to professionals and researchers working in the areas of analytics and energy efficiency within the healthcare fields

Advanced Computer and Communication Engineering Technology Hamzah Asyrani Sulaiman,Mohd Azlishah Othman,Mohd Fairuz Iskandar Othman,Yahaya Abd Rahim,Naim Che Pee,2014-11-01 This book covers diverse aspects of advanced computer and communication engineering focusing specifically on industrial and manufacturing theory and applications of electronics communications computing and information technology Experts in research industry and academia present the latest developments in technology describe applications involving cutting edge communication and computer systems and explore likely future directions In addition access is offered to numerous new algorithms that assist in solving computer and communication engineering problems The book is based on presentations delivered at ICOCOE 2014 the 1st International Conference on Communication and Computer Engineering It will appeal to a wide range of professionals in the field including telecommunication engineers computer engineers and scientists researchers academics and students

Eine

Methode zur interaktiven multikriteriellen Entscheidungsunterstützung in betrieblichen

Umweltinformationssystemen für kleine und mittlere Unternehmen Fabian Renatus, 2017-04-06 Die vorliegende Dissertation erarbeitet eine Entscheidungsunterstützungsmethode die von kleinen und mittleren Unternehmen im Rahmen von Nachhaltigkeitsentscheidungen angewendet werden kann Dabei wird das objektive Technique for Order of Preference by Similarity to Ideal Solution TOPSIS Verfahren um subjektive Elemente sowie eine Sensitivitätsanalyse erweitert TOPSIS basiert auf Referenzpunkten und benötigt neben einer Gewichtung der Kriterien keine weiteren Eingaben des Entscheidungsträgers Das Verfahren ist somit relativ einfach zu verstehen und anzuwenden Um jedoch das Vertrauen in die Entscheidungsunterstützung zu stärken wird dem Entscheidungsträger die Möglichkeit geboten die Referenzpunkte durch Stützniveaus nach seinen Präferenzen anzupassen Zur Steigerung der Akzeptanz wird dem Entscheidungsträger zusätzlich eine Sensitivitätsanalyse angeboten Diese erlaubt die Ergebnisse hinsichtlich einer Veränderung der Kriteriengewichtungen zu untersuchen Neben der theoretischen Auseinandersetzung mit dem Thema wird das entwickelte System ebenfalls an einem übersichtlichen praktischen Beispiel erläutert

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library

Management and Information Systems Bahattin KARADEMİR, 2019-03-13 **Information and Communication Technology for Sustainable Development** Durgesh Kumar Mishra, Malaya Kumar Nayak, Amit Joshi, 2017-11-07 The book proposes new technologies and discusses future solutions for design infrastructure for ICT The book contains high quality submissions presented at Second International Conference on Information and Communication Technology for Sustainable Development ICT4SD 2016 held at Goa India

during 1 2 July 2016 The conference stimulates the cutting edge research discussions among many academic pioneering researchers scientists industrial engineers and students from all around the world The topics covered in this book also focus on innovative issues at international level by bringing together the experts from different countries Green ICT & Energy Jaco H. Appelman, Anwar Osseyran, Martijn Warnier, 2013-12-16 This book provides the connection between the growing body of literature on sustainability and the topics of energy and ICT It aims to show how stakeholders active in this area need to play their part ensuring that the ICT sector evolves towards a sector that can lead through greening by IT and also shows that it can green its own IT as well

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Harnessing Green It Principles And Practices Introduction

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