

An Excellent Addition to Your Library!

Released: March 2011

Green Technologies: Concepts, Methodologies, Tools and Applications



Information Resources Management Association, USA

In recent years, environmental technology has become a critical area of study, as individuals and organizations have started to emphasize the importance of conserving resources and reducing human impact on the environment.

Green Technologies: Concepts, Methodologies, Tools and Applications assembles the most up-to-date collection of research results and recent discoveries in green technology. This comprehensive anthology covers a wide range of topics, including climate change, sustainable development, green diplomacy, and more.

Topics Covered:

- Air quality assessment
- Alternative energy
- Climate change
- Energy conservation
- Environmental science
- Green IT
- Renewable energy
- Sustainable design and development
- Water and air purification

ISBN: 9781609604721; © 2011; 2156 pp.

Print: US \$1,845.00 | Perpetual: US \$2,765.00 | Print + Perpetual: US \$3,690.00

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Information Resources Management Association (IRMA) is a research-based professional organization dedicated to advancing the concepts and practices of information resources management in modern organizations. IRMA's primary purpose is to promote the understanding, development and practice of managing information resources as key enterprise assets among IRM/IT professionals. IRMA brings together researchers, practitioners, academicians, and policy makers in information technology management from over 50 countries.

Section 1: Fundamental Concepts and Theories

Chapter 101

Green Energy:

Miller Wendy (Queensland University of Technology, Brisbane, Australia)
Birkeland Janis (Queensland University of Technology, Brisbane, Australia)

Chapter 102

Green Health:

Godbole Nina (IBM India Pvt. Ltd., India)

Chapter 103

Green IS:

Holmström Jonny (Umeå University, Sweden)
Mathiassen Lars (Georgia State University, USA)
Sandberg Johan (Umeå University, Sweden)
Wimelius Henrik (Umeå University, Sweden)

Chapter 104

Information and Communication Technologies for a more Sustainable World

Hilty Lorenz M. (University of Zurich, Switzerland & Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland)

Chapter 105

Planning Sustainable Communities:

Donchue Paul (Queensland University of Technology, Australia)

Chapter 106

Strategies for Greening Enterprise IT:

Murugesan San (University of Western Sydney & BRITE Professional Services, Australia)

Chapter 107

Sustainability Constraints as System Boundaries:

Ny Henrik (Blekinge Institute of Technology, Sweden)
MacDonald Jamie P. (Office of the Minister of the Environment, Ontario, Canada)
Broman Göran (Blekinge Institute of Technology, Sweden)
Robèrt Karl-Henrik (Blekinge Institute of Technology, Sweden)

Chapter 108

Sustainable Infrastructure Project Planning:

Omar Mohd Faizal Bin (Queensland University of Technology, Australia)
Trigunaryah Bambang (Queensland University of Technology, Australia)
Wong Johnny (Queensland University of Technology, Australia)

Chapter 109

Sustaining the Green Information Technology Movement

Garg Miti (The Logistics Institute – Asia Pacific, Singapore)
Gupta Sumeet (Shri Shankaracharya College of Engineering and Technology, India)
Goh Mark (The Logistics Institute – Asia Pacific, Singapore)
Desouza Robert (The Logistics Institute – Asia Pacific, Singapore)
Sundarkarni Balan (The Logistics Institute – Asia Pacific, Singapore)
Bong Ridwan Kuswoyo (The Logistics Institute – Asia Pacific, Singapore)

Chapter 110

The Greenstone Digital Library Software

Witten Ian H. (University of Waikato, New Zealand)
Bainbridge David (University of Waikato, New Zealand)

Chapter 111

Sustainable Supply Chain Management:

Dukovska-Popovska Iskra (Aalborg University, Denmark)
Bertoni Malcolm (University of Tasmania, Australia)
Hvolby Hans-Henrik (Aalborg University, Denmark)
Turner Paul (University of Tasmania, Australia)
Steger-Jensen Kenn (Aalborg University, Denmark)

Chapter 112

Sustainable Transport Infrastructure:

Dur Fatih (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Bunker Jonathan (Queensland University of Technology, Australia)

Chapter 113

Sustainable Urban Development:

Teriman Suharto (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Mayere Severine (Queensland University of Technology, Australia)

Section 2: Development and Design Methodologies

Chapter 201

A Comprehensive and Practical Green ICT Framework

Philipson Graeme (Connection Research, Australia)

Chapter 202

A Framework for Environmentally Responsible Business Strategies

Unhelkar Bhuvan (MethodScience.com; University of Western Sydney, Australia)
Trivedi Bharti (DDU, Nadiad, India)

Chapter 203

A Framework for the Implementation of Eco-Efficient Business Systems

Shakir Maha (Zayed University, UAE)

Chapter 204

A Linear Optimization Approach for Increasing Sustainability in Vegetable Crop Production

dos Santos Lana Mara R. (Universidade Federal de Viçosa, Brazil)
Arenales Marcos N. (Instituto de Ciências Matemáticas e de Computação, Universidade de São Paulo, Brazil)
Costa Alysson M. (Instituto de Ciências Matemáticas e de Computação, Universidade de São Paulo, Brazil)
Santos Ricardo H. S. (Universidade Federal de Viçosa, Brazil)

Chapter 205

Architecture, Design and Development of a Green ICT System

Ramaiya Kinjal (Symbiosis Centre for Information Technology, India)
Shrinivasan Vivek (University of St. Andrews, UK)
Bhargava Siddhartha (University of St. Andrews, UK)

Chapter 206

Brisbane Urban Growth Model:

Au-Yeung Benson (City Planning Branch, Brisbane City Council, Brisbane, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Mayere Severine (Queensland University of Technology, Australia)
Lau Chean-Piau (City Planning Branch, Brisbane City Council, Brisbane, Australia)

Chapter 207

Green ICT and Architectural Frameworks

Goel Amit (RMIT University, Australia)
Tiwary Amit (Utility Industry, Australia)
Schmidt Heinz (RMIT University, Australia)

Chapter 208

Green ICT System Architecture Frameworks

Curtis Dave (MethodScience, Australia)
Lingarchani Amit (MethodScience, Australia)

Chapter 209

Modeling of Green Supply Chain Logistics

Hsu Hsin-Wei (National Tsing Hua University, Taiwan, ROC)
Wang Hsiao-Fan (National Tsing Hua University, Taiwan, ROC)

Chapter 210

Green Semiconductor Design Techniques and Challenges

Rajain Somesh (eInfochips Pvt. Ltd., India)
Shingala Chetan (Sibridge Technologies Ltd, India)
Mehul Ekata (eInfochips Pvt. Ltd., India)

Section 3: Tools and Technologies

Chapter 301

A BIM Based Application to Support Cost Feasible 'Green Building' Concept Decisions

Hua GOH Bee (National University of Singapore, Singapore)

Chapter 302

A Data Envelopment Analysis Approach for Household Appliances and Automobile Recycling
Kongar Elif (University of Bridgeport, Bridgeport, CT, USA)
Gupta Surendra M. (Northeastern University, Boston, USA)

Chapter 303

A Decision Support System for Sustainable Urban Development:
Dur Fatih (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Bunker Jonathan (Queensland University of Technology, Australia)

Chapter 304

A Taxonomy of Green Information and Communication Protocols and Standards
Ryoo Jungwoo (The Pennsylvania State University-Altoona, USA)
Choi Young B. (Bloomsburg University of Pennsylvania, USA)
Tae H. OH (Rochester Institute of Technology, USA)

Chapter 305

An Artificial Life-Based Vegetation Modelling Approach for Biodiversity Research
Eugene Ch'ng (The University of Wolverhampton, UK)

Chapter 306

Building Capacity for Better Water Decision Making through Internet-Based Decision Support Systems
Salewicz Kazimierz A. (Systems Analyst, Austria)
Nakayama Mikiyasu (University of Tokyo, Japan)
Bruch Carl (Environmental Law Institute, USA)

Chapter 307

Comprehensive Energy Systems Analysis Support Tools for Decision Making
Cosmi C. (National Research Council, Italy)
Di Leo S. (University of Basilicata, Italy)
Loperte S. (National Research Council, Italy)
Pietrapertosa F. (National Research Council, Italy)
Salvia M. (National Research Council, Italy)
Macchiato M. (National Research Council, Italy)
Cuomo V. (National Research Council, Italy)

Chapter 308

Energy Management System Using Wireless Sensor Network
Mehul Ekata (eInfochips Pvt. Ltd., India)
Shah Rahul (eInfochips Pvt. Ltd., India)

Chapter 309

Evolutionary Bayesian Belief Networks for Participatory Water Resources Management under Uncertainty
Farmani R. (University of Exeter, UK)
Savic D.A. (University of Exeter, UK)
Henriksen H.J. (GEUS, Denmark)
Molina J.L. (Geological Survey of Spain, Spain)
Giordano R. (Istituto di Ricerca Sulle Acque (IRSA) – Water Research Institute, Italy)
Bromley J. (Oxford University, UK)

Chapter 310

Sustainable Product Service Systems
Ness David (University of South Australia, Australia)

Chapter 311

Traceability Systems for Sustainable Development in Rural Areas
García-Díaz Vicente (University of Oviedo, Spain)
Bustelo B. Cristina Pelayo G. (University of Oviedo, Spain)
Martínez Oscar Sanjuán (University of Oviedo, Spain)
Lovelley Juan Manuel Cueva (University of Oviedo, Spain)
Ordóñez de Pablos Patricia (University of Oviedo, Spain)

Chapter 312

Using Geographic Information System to Inflow the Fertilizers Pollution Migration
Sallam Gehan A.H. (National Water Research Center, Egypt)
Youssef Tahani (Helwan University, Egypt)
Embaby Mohamed El-Sayed (National Water Research Center, Egypt)
Shaltot Fatma (Helwan University, Egypt)

Chapter 313

Using Knowledge Management Tools in Fostering Green ICT Related Behavior Change
Hercheui Magda David (Westminster Business School, UK)

Section 4: Utilization and Application

Chapter 401

A Composite Indicator to Measure Agricultural Sustainability:
Gómez-Limón José A. (Institute of Agricultural Research and Training (IFAPA), Spain)
Riesgo Laura (Pablo de Olavide University, Spain)

Chapter 402

Adaptive Management on Sustainability of Cork Oak Woodlands
Ribeiro Nuno de Almeida (University of Évora, Portugal)
Surový Peter (University of Évora, Portugal)
Pinheiro António Cipriano (University of Évora, Portugal)

Chapter 403

An Australian Rules Football Club Approach To Green ICT
Phuah Jeffrey (Carlton Football Club, Australia)

Chapter 404

Application of a Composite Process Framework for Managing Green ICT Applications Development
Maharmeh Mohammed (University of Western Sydney, Australia)
Saeed Zahra (University of Technology Sydney, Australia)

Chapter 405

Application of Remote Sensing Technologies and Geographical Information Systems in Monitoring Environmental Degradation in the Lake Victoria Watershed, East Africa
Twesigye Charles K. (Kyambogo University, Uganda)

Chapter 406

Applying Service Oriented Architecture and Cloud Computing for a Greener Traffic Management
Bhalla Ishan (University of Technology Sydney, Australia)
Chaudhary Kamlesh (University of Technology Sydney, Australia)

Chapter 407

Assessing Environment-Climate Impacts in the Nile Basin for Decision-Making:
El-Daoushy Farid (Uppsala University, Sweden)

Chapter 408

Breaking Out from Lock-In:
Hospers Gert-Jan (University of Twente, The Netherlands & Radboud University, The Netherlands)

Chapter 409

Construction of Agri-Environmental Data Using Computational Methods:
Uchida Susumu (National Agriculture and Food Research Organization, JAPAN)
Hayashi Kiyotada (National Agriculture and Food Research Organization, JAPAN)
Sato Masaei (National Agriculture and Food Research Organization, JAPAN)
Hokazono Shingo (National Agriculture and Food Research Organization, JAPAN)

Chapter 410

Digital Green ICT:
Kamani Krunal (Anand Agricultural University, India)
Kathiriya Dhaval (Gujarat Technological University, India)
Virparia Pares (Sardar Patel University, India)
Parsania Pankaj (Anand Agricultural University, India)

Chapter 411

E-Agriculture Development in South Africa:
Tembo Rachael (Cape Peninsula University of Technology, South Africa)
Maumbe Blessing Mukabeta (Eastern Kentucky University, USA)

Chapter 412

Environment-Enterprise Integration:
Michellini R.C. (DIMEC, University of Genova, Italy)
Razzoli R.P. (DIMEC, University of Genova, Italy)

Chapter 413

Flow-Based Structural Modelling and Dynamic Simulation of Lake Water Levels
Adero Nashon Juma (Kenya Institute for Public Policy Research and Analysis (KIPPRA), Kenya)
Kiema John Bosco Kyalo (University of Nairobi, Kenya)

Chapter 414
Fuel Reduction Effect of the Solar Cell and Diesel Engine Hybrid System with a Prediction Algorithm of Solar Power Generation
Obara Shinya (Kitami Institute of Technology, Japan)

Chapter 415
GIS and Remote Sensing in Environmental Risk Assessment
Chen X. Mara (Salisbury University, USA)

Chapter 416
Green Product Retrieval and Recommendations System
Liao Yi-Chun (Hsuan Chuang University, Taiwan, R.O.C.)

Chapter 417
Green Transport Infrastructure:
Davidson Kristiane (Queensland University of Technology, Australia)
Lukies Ned (Queensland University of Technology, Australia)
Lehtonen Debbie (Queensland University of Technology, Australia)

Chapter 418
Green Urban Planning and Design for Smarter Communities
Ercoskun Ozge Yalciner (Gazi University, Turkey)

Chapter 419
Integrated Sustainable Urban Infrastructure Management:
AuYeung Benson (Brisbane City Council, City Planning Branch, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Mayere Severine (Queensland University of Technology, Australia)

Chapter 420
Integrated Watershed Management for Sustainable Development
Worku Goshu (Water Works Design & Supervision Enterprise, Ethiopia)

Chapter 421
Integrating Green ICT in a Supply Chain Management System
Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)
Lan Yi-Chen (University of Western Sydney, Australia)

Chapter 422
Mathematical-Modelling Simulation Applied to Help in the Decision-Making Process on Environmental Impact Assessment of Agriculture
Pessoa Maria Conceição Peres Young (Embrapa Environment, Jaguariúna/SP, Brazil)
Fernandes Elizabeth Nogueira (Embrapa Dairy Cattle, Juiz de Fora/MG, Brazil)
Nascimento de Queiroz Sonia Cláudia do (Embrapa Environment, Jaguariúna/SP, Brazil)
Ferracini Vera Lúcia (Embrapa Environment, Jaguariúna/SP, Brazil)
Gomes Marco Antonio Ferreira (Embrapa Environment, Jaguariúna/SP, Brazil)
Dornelas de Souza Manoel (Embrapa Environment, Jaguariúna/SP, Brazil)

Chapter 423
Promoting E-Governance Through Capacity Development for the Global Environment:
Perry Jim (International Institute for Sustainable Development, Canada)
Paas Leslie (International Institute for Sustainable Development, Canada)
Arreola Maria Eugenia (United Nations Environment Programme, Kenya)
Santer Elena (United Nations Environment Programme, Kenya)
Sharma Nalini (United Nations Environment Programme, Kenya)
Bellali Johara (United Nations Environment Programme, Kenya)

Chapter 424
Supply Chain Optimization Audit (SCOA) for Green ICT Opportunities
Mukerji Saugato (University of Wollongong, Australia)
Ghose Aditya K (University of Wollongong, Australia)

Chapter 425
Sustainable Infrastructure Assets:
Too Eric (Queensland University of Technology, Australia)
Betts Martin (Queensland University of Technology, Australia)
Kumar Arun (Queensland University of Technology, Australia)

Chapter 426
Sustainable Transportation Development:
Rashid Kushairi (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Bunker Jonathan (Queensland University of Technology, Australia)

Chapter 427
Sustainable Urban Infrastructure Development in South East Asia:
Teriman Suharto (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Mayere Severine (Queensland University of Technology, Australia)

Chapter 428
Sustainable Urban Stormwater Management:
Lee Shinyi (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)

Chapter 429
Technology Transfer and Diffusion in Developing Economies:
Igbokwe Edwin. M. (University of Nigeria, Nigeria)
Ozor Nicholas (University of Nigeria, Nigeria)

Chapter 430
The Relation Between ICT and Environmental Management Practice in a Construction Company
Jacobsson Mattias (Umeå School of Business, Umeå University, Sweden)
Linde Anneli (Umeå School of Business, Umeå University, Sweden)
Linderoth Henrik (University of Skövde, Sweden)

Chapter 431
Using Carbons Emissions Management Solutions in Practice
Tran Vu Long (Springboard Research, Australia)

Chapter 432
Zoning Based on Climate and Soil for Planting Eucalyptus in Southern Region of Rio Grande do Sul State, Brazil
Alba José Maria Filippini (Embrapa Temperate Climate Research Center, Brazil.)
Wrege Marcos Silvera (Embrapa Forest Research Center, Brazil.)
Carlos Alberto Flores (Embrapa Temperate Climate Research Center, Brazil.)
Garrastazu Marilice Cordeiro (Embrapa Forest Research Center, Brazil.)

Section 5: Organizational and Social Implications

Chapter 501
Adopting Green ICT in Business
Chitra Subramanian (Independent Scholar)

Chapter 502
Collaboration as a Key Enabler for Small and Medium Enterprises (SME) Implementing Green ICT
Ioakim (Makis) Marmaridis (IMTG, Australia)
Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)

Chapter 503
Communication, Information and Sustainability:
Tortora Marco (Political Science School, University of Florence, Italy)

Chapter 504
Enhancing the Efficiency of ICT by Spatial Data Interoperability
Cerba Otakar (University of West Bohemia, Czech Republic)
Charvat Karel (Czech Center for Science and Society, Czech Republic)
Jezek Jan (University of West Bohemia, Czech Republic)
Kafka Stepan (Help Service – Remote Sensing spol. s.r.o., Czech Republic)

Chapter 505
Extending and Applying Business Intelligence and Customer Strategies for Green ICT
Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)
Tiwary Amit (Solution Architect, Australia)

Chapter 506
From Traditional Non-Sustainable Production to Closed Loop Manufacturing:
Golinska Paulina (Poznan University of Technology, Poland)

Chapter 507
Green ICT Organizational Implementations and Workplace Relationships
Jain Heemanshu (London School of Economics (LSE))

Chapter 508

How can Information Technology be Adopted by Micro-Enterprises:

Kamal Mehruz (The College at Brockport, State University of New York, USA)

Qureshi Sajda (University of Nebraska at Omaha, USA)

Wolcott Peter (University of Nebraska at Omaha, USA)

Chapter 509

Information Systems for a Green Organisation

Deshpande Yogesh (University of Western Sydney, Australia)

Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)

Chapter 510

Philanthropy, CSR and Sustainability

Sahay Arun (Strategic Management, Management Development Institute, Gurgaon, India)

Chapter 511

Role of Mobile Technologies in an Environmentally Responsible Business Strategy

Trivedi Bharti (DDU Nadiad, India)

Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)

Chapter 512

Standards and Legislation for the Carbon Economy

Pradhan Alok (Macquarie University, Australia)

Chapter 513

The Negative Impact of ICT Waste on Environment and Health

Askarzai Walied (Academies Australasia, Australia)

Chapter 514

The Potential of E-Participation in Sustainable Development Evaluation:

Lombardi Patrizia (Politecnico di Torino, Italy)

Huovila Pekka (VTT Technical Research Centre of Finland)

Sunikka-Blank Minna (University of Cambridge, UK)

Section 6: Managerial Impact

Chapter 601

Approaches and Initiatives to Green IT Strategy in Business

Goel Amit (RMIT University, Australia)

Tiwary Amit (Utilities Industry, Australia)

Schmidt Heinz (RMIT University, Australia)

Chapter 602

Balancing Green ICT Business Development with Corporate Social Responsibility (CSR)

Garito Marco (Viale Fulvio Testi, Italy)

Chapter 603

Business Processes Management for a Green Telecommunications Company

Balachandran Ramesh (Sri Lanka Telecom PLC, Sri Lanka)

Chapter 604

Influence of Green IT on IT Management and IT Controlling

Gadatsch Andreas (Bonn-Rhine-Sieg University of Applied Sciences, Germany)

Chapter 605

Green Information Technology and Virtualization in Corporate Environmental Management

Information Systems

Chen Edward T. (University of Massachusetts Lowell, USA)

Chapter 606

Green Strategic Alignment:

Wang Hui-Ling (University of Wollongong, Australia)

Ghose Aditya (University of Wollongong, Australia)

Chapter 607

Management Instruments for Sustainable Information Systems Management

Erek Koray (Berlin Institute of Technology, Germany)

Schmidt Nils-Holger (University of Göttingen, Germany)

Zarnekow Rüdiger (Berlin Institute of Technology, Germany)

Kolbe Lutz M. (University of Göttingen, Germany)

Chapter 608

Strategies for a Sustainable Enterprise

Rosen Michael (Wilton Consulting Group & Cutter Consortium, USA)

Krichevsky Tamar (Wilton Consulting Group, USA)

Sharma Harsh (OMG Sustainability SIG, USA)

Chapter 609

The Role of the Business Analyst in Green ICT

Beal Adriana (Beal Projects, USA)

Chapter 610

Tools for Corporate Assessment of Sustainable Development

Mark-Herbert Cecilia (Department of Economics, The Swedish University of

Agriculture Sciences, Uppsala, Sweden)

Rorarius Jonas (Department of Economics, The Swedish University of Agriculture

Sciences, Uppsala, Sweden)

Chapter 701

Exploratory Analysis of Fossil-Fuel CO2 Emissions Time Series Using Independent Component Analysis

Parmar Sargam (Ganpat University, India)

Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)

Chapter 702

Contesting 'Sustainability' In Infrastructure Planning:

Shibata Kuniko (Osaka City University, Japan)

Sanders Paul (Queensland University of Technology, Australia)

Chapter 703

Decision Criteria for Green Management Information Systems

Gasmelseid Tagelsir Mohamed (King Faisal University, Saudi Arabia)

Chapter 704

Diffusion of the Clean Development Mechanism

Rahman Shaikh M. (Texas Tech University, USA)

Dinar Ariel (University of California, Riverside, USA)

Larson Donald F. (World Bank, USA)

Chapter 705

Efficient Information Provision for Environmental and Sustainability Reporting

Akkaya Cigdem (Technische Universität München, Germany)

Wolf Petra (Technische Universität München, Germany)

Kremer Helmut (Technische Universität München, Germany)

Chapter 706

Emvisioning the Paradigm of Service Oriented Hydrology Intelligence (SOHI)

Chelliah Pethuru Raj (Robert Bosch India, India)

Chapter 707

E-Waste Management:

Godbole Nina (IBM India Pvt. Ltd, India)

Chapter 708

From Cleaner Production to Greening the Local Economy

Odake Nobutaka (Nagoya Institute of Technology, Japan)

Furukawa Satomi (Fuluhashi Environmental Institute Co., Ltd., Japan)

Chapter 709

Identifying and Clustering of Target Customers of Green Products

Wang Miao-Ling (Ming-Hsin University of Science & Technology, Taiwan, ROC)

Chapter 710

Information and Communication Technologies for the Good Society

Hofkirchner Wolfgang (Vienna University of Technology, Austria)

Chapter 711

Information and Communication Technology as Key Infrastructure for Sustainable Cities:

Kusakabe Motoo (Ritsumeikan Asia Pacific University, Japan)

Chapter 712

Natural Resources Accounting for Sustainable Development:

Nallathiga Ramakrishna (Centre for Good Governance, India)

Chapter 713

Sustainable Business Initiatives in the Context of Emerging Economies
Nathadwarawala Jay (Luv) M. (Cardiff University Business School, UK)
Nathadwarawala Khush M. (Imperial College Business School, UK)

Chapter 714

Sustainable Water Provision:
Lee Shinyi (Queensland University Of Technology, Australia)
Yigitcanlar Tan (Queensland University Of Technology, Australia)
Egodawatta Prasanna (Queensland University Of Technology, Australia)
Goonetilleke Ashantha (Queensland University Of Technology, Australia)

Chapter 715

The Influences of Savings and Investments on Sustainable Development and the Role of Information Technology
Baggiani Leonardo (Independent Researcher, Italy)

Chapter 716

Traffic and Climate Change Impacts on Water Quality:
Mahbub Parvez (Queensland University of Technology, Australia)
Ayoko Godwin A. (Queensland University of Technology, Australia)
Egodawatta Prasanna (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Goonetilleke Ashantha (Queensland University of Technology, Australia)

Chapter 717

Understanding the Context of Green ICT
Gheewala Deepa (Misys Software Solutions, UK)
Gheewala Vivek (UST Global, USA)

Chapter 801

Improving Energy-Efficiency of Computational Grids via Scheduling
Zong Ziliang (South Dakota School of Mines and Technology, USA)
Ruan Xiaojun (Auburn University, USA)
Manzanares Adam (Auburn University, USA)
Bellam Kiranmai (Auburn University, USA)
Qin Xiao (Auburn University, USA)

Chapter 802

Infrastructure Sharing & Renewable Energy Use In Telecommunication Industry for Sustainable Development
Ranatunga Dilupa (University of Colombo, Sri Lanka)
Withanage Rasika (University of Wales, UK)
Arunatileka Dinesh (University of Western Sydney, Australia & University of Colombo, Sri Lanka)

Chapter 803

Innovation and Sustainable Development:
von Hauff Michael (University of Kaiserslautern, Germany)
Jörg Andrea (University of Kaiserslautern, Germany)

Chapter 804

Low Power Techniques for Greener Hardware
Buch Kaushal (Giant Metrewave Radio Telescope (GMRT), National Centre for Radio Astrophysics (NCRA), Tata Institute of Fundamental Research, India)
Dubey Rahul (Dhirubhai Ambani Institute of Information and Communication Technology, India)
Buch Saket (Indian Space Research Organization, India)

Chapter 805

Paving the Way towards Virtual Biorefineries
Rapp Barbara (Carl von Ossietzky University Oldenburg, Germany)
Bremer Jörg (Carl von Ossietzky University Oldenburg, Germany)

Chapter 806

Planning for Sustainable Urban Futures:
Dizdaroglu Didem (Queensland University of Technology, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Dawes Les (Queensland University of Technology, Australia)

Chapter 807

Strategic Business Trends in the Context of Green ICT
Sherringham Keith (IMS Corp, Australia)
Unhelkar Bhuvan (University of Western Sydney & MethodScience, Australia)

Chapter 808

Technological Change and the Transformation of Global Agriculture:
Nin-Pratt Alejandro (International Food Policy Research Institute, USA)

Chapter 809

The idealization of an Integrated BIM, Lean, and Green Model (BLG)
Fernández-Solis José L. (Texas A&M University, USA)
Mutis Iván (Texas A&M University, USA)

Chapter 810

The Optimizing WEB:
Ghose Aditya (University of Wollongong, Australia)
Billiau Graham (University of Wollongong, Australia)

Order Your Copy Today!

Name: _____

Organization: _____

Address: _____

City, State, Zip: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

Enclosed is check payable to IGI Global in
US Dollars, drawn on a US-based bank

Credit Card Mastercard Visa Am. Express

3 or 4 Digit Security Code: _____

Name on Card: _____

Account #: _____

Expiration Date: _____