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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Foreword; Preface; Contents; 1 How Can Sustainable Development Be Achieved for All While Addressing Global Climate Change?; 1.1 Introduction; 1.2 Literature Review; 1.2.1 Research Methodology; 1.2.2 Literature Analysis and Synthesis; 1.2.3 IS Concepts Related to Eco-efficiency; 1.2.4 IS Concepts Related to Eco-equity; 1.2.5 IS Concepts Related to Eco-effectiveness; 1.3 Discussion; 1.4 Research Agenda; 1.5 Conclusion; References; 2 ICT-Applications to Align Global Resources with a Growing Population; 2.1 Introduction; 2.2 Literature Review; 2.3 The Challenge: Demand and Supply Side Perspective 2.4 Research Results 2.4.1 Demand Side; 2.4.2 Supply Side; 2.5 Conclusion; References; 3 How Can Information Systems Help to Make Policymaking Be More Sensitive to Global Long-Term Perspectives?; 3.1

Introduction; 3.2 Research Method; 3.3 Results and Discussion; 3.4 Research Agenda; 3.5 Conclusion; References; 4 Making the Global Convergence of ICT Available for Everyone; 4.1 Introduction; 4.2 Literature Review; 4.3 Results and Discussion; 4.4 Research Agenda; 4.5 Conclusions; References; 5 How Can the Capacity to Decide Be Improved as the Nature of Work and Institutions Change? 6.3.3 Empowerment of Women; 6.4 Research Agenda; 6.5 Conclusion; References; 7 How Can Transnational Organized Crime Networks Be Stopped from Becoming More Powerful and Sophisticated Global Enterprises?; 7.1 Introduction; 7.2 Literature Review; 7.2.1 Research Method; 7.2.2 Characteristics of Transnational Organized Crime Organisations; 7.2.3 Main Activity Fields; 7.2.4 Means Against Transnational Organized Crime; 7.3 Discussion on Results; 7.4 Research Agenda; 7.4.1 Areas of Further Research; 7.4.2 Communication Tool for Criminals; 7.4.3 Support of Criminal Activities; 7.4.4 Supporting Law Enforcement; 7.5 Conclusion; References; 8 How Can Growing Energy Demands Be Met Safely and Efficiently?; 8.1 Introduction; 8.2 Literature Review; 8.2.1 Literature Search; 8.2.2 Demand Side Management; 8.2.3 Smart Grid Technologies; 8.3 Discussion and Research Agenda; 8.4 Conclusion; References; 9 How Can Scientific and Technological Breakthroughs Be Accelerated to Improve the Human Condition?; 9.1 Introduction; 9.2 Related Work; 9.2.1 Nanotechnology; 9.2.2 Biotechnology; 9.2.3 Information Technology; 9.2.4 Cognitive Science; 9.3 Discussion; 9.4 Research Agenda; 9.5 Conclusion

Sommario/riassunto

This book examines how information systems research and education can play a major role in contributing to solutions to the Societal Grand Challenges formulated in “The Millennium Project” (millennium-project.org). Individual chapters focus on specific challenges, review existing approaches and contributions towards solutions in information systems research and outline a research agenda for these challenges. The topics considered in this volume range from climate change, population growth, global ICT availability, breakthroughs in science and technology and energy demand to ethical decision-making, policymaking, gender status and transnational crime prevention. It is the first book to present ideas on how the Information Systems discipline can contribute to the solution on this wide spectrum of grand societal challenges.