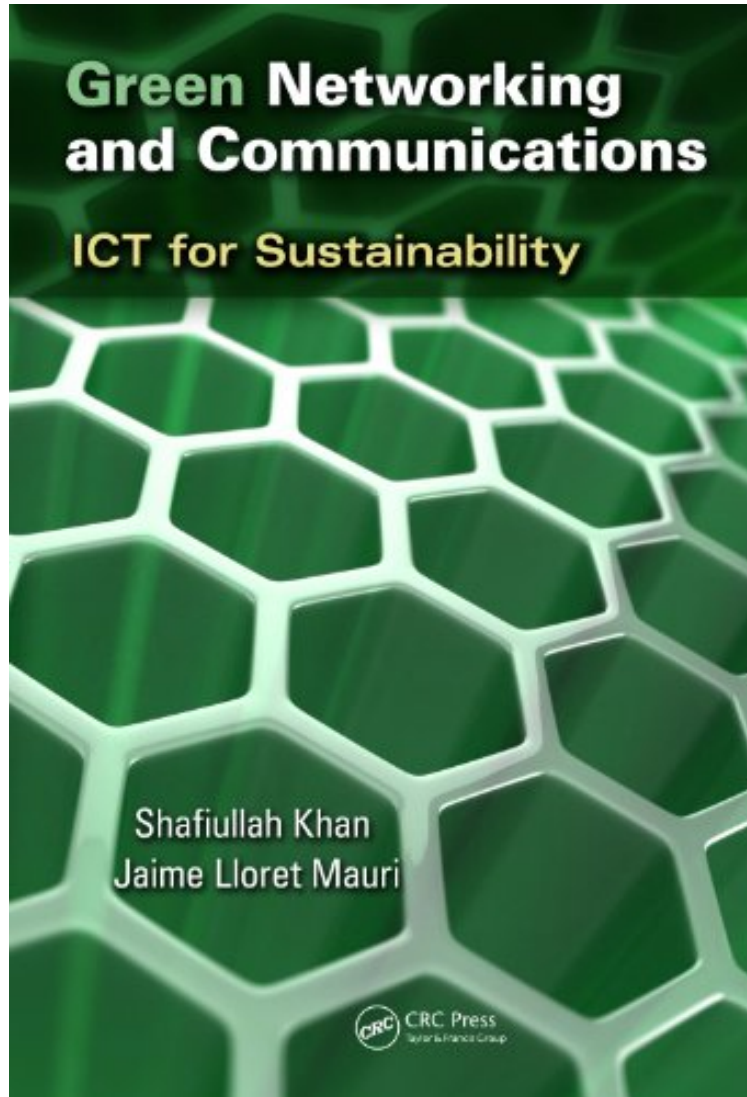


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## Green Networking and Communications: ICT for Sustainability

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Although the information and communication technology (ICT) industry accounted for only 2 percent of global greenhouse gas emissions in 2007, the explosive increase in data traffic brought about by a rapidly growing user base of more than a billion wireless subscribers is expected to nearly double that number by 2020. It is clear that now is the

time to rethink how we design and build our networks. *Green Networking and Communications: ICT for Sustainability* brings together leading academic and industrial researchers from around the world to discuss emerging developments in energy-efficient networking and communications. It covers the spectrum of research subjects, including methodologies and architectures for energy efficiency, energy-efficient protocols and networks, energy management, smart grid communications, and communication technologies for green solutions. Examines foraging-inspired radio-communication energy management for green multi-radio networks. Considers a cross-layer approach to the design of energy-efficient wireless access networks. Investigates the interplay between cooperative device-to-device communications and green LTE cellular networks. Considers smart grid energy procurement for green LTE cellular networks. Details smart grid networking protocols and standards. Considering the spectrum of energy-efficient network components and approaches for reducing power consumption, the book is organized into three sections: *Energy Efficiency and Management in Wireless Networks, Cellular Networks, and Smart Grids*. It addresses many open research challenges regarding energy efficiency for IT and for wireless sensor networks, including mobile and wireless access networks, broadband access networks, home networks, vehicular networks, intelligent future wireless networks, and smart grids. It also examines emerging standards for energy-efficient protocols. Since ICT technologies touch on nearly all sectors of the economy, the concepts presented in this text offer you the opportunity to make a substantial contribution to the reduction of global greenhouse gas emissions.