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                           security assurance, cloud computing, smart cities, renewable energy,
                           agro-engineering, smart vehicles, deep learning, block chain, power
                           systems, AI, machine learning, manufacturing systems, and big-data
                           analytics. This volume focuses on subjects related to innovative
                           computing, uncertainty management and optimization approaches to
                           real-world problems in big-data, smart cities, sustainability, meta-
                           heuristics, cyber-security, IoTs, economics and finance, renewable
                           energy, energy and electricity systems, and block chain. Presenting
                           cutting-edge methodologies with real-world application problems and
                           their solutions, the book is useful for researchers, managers,
                           executives, students, academicians, practicing scientists, and decision
                           makers from all around the globe. It offers the academic and the
                           applied communities a compendium and a research resource with
                           significant insights and inspiration for innovative scientific education,

investigation and collaboration, to overcome "hard problems" among the emerging challenges today and in the future.