1. Record Nr. UNINA9910135041003321 Perspectives on complex global challenges: education, energy, Titolo healthcare, security, and resilience / / edited by Elisabeth Pate-Cornell, William B. Rouse, Charles M. Vest Hoboken, New Jersey:,: Wiley,, 2016 Pubbl/distr/stampa ©2016 **ISBN** 1-118-98411-0 1-118-98410-2 1-118-98412-9 Descrizione fisica 1 online resource (198 p.) Collana Stevens Institute Series on Complex Systems and Enterprises 309.173 Disciplina Soggetti Globalization Electronic books. **United States Social conditions** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Nota di contenuto Title Page; Copyright; Dedication; Table of Contents; Contributors; Introduction and Overview; Introduction; Trade-Offs, Risks, and Opportunities in Turbulent Times; Opportunities; Overview of Contribution; Can America Still Compete?; Section I: Education; Chapter 1: Introduction; Overview of Contributions; References; Chapter 2: K-12 Education Reform in the United States; Great Teachers; High Expectations; Tension in the System; Intelligent use of Technology in the Classroom; Make Education Relevant for the Student; Chapter 3: Secure America's Economic Future by Investing in Young Children References Recommended Reading: Chapter 4: The Future of Teaching in the United States; References; Chapter 5: The Conundrum of Controlling College Costs; References; Chapter 6: Military Education; Section II: Energy; Chapter 7: Introduction; Energy Demand; The Electric Grid; Nuclear Power; Renewable Energy; Role of Consumers; Overview

of Contributions; References; Chapter 8: The Future of the us Electric Grid; System Organization; Bulk Power; Distribution; Cybersecurity;

Concluding Observations; Chapter 9: The Revolution in Natural Gas Chapter 10: The Future of Nuclear Power in the United StatesChapter 11: Renewable Energy: Balancing Risk and Reward; Section III: Healthcare: Chapter 12: Introduction: Driving Forces: Complexity of Decision Making; Value and Healthcare Delivery; Overview of Contributions; References; Chapter 13: How to Move Toward Value-Based Healthcare?: Recommended Readings: Chapter 14: Delivering on the Promise to Reduce the Cost of Healthcare with Electronic Health Records; Recommended Readings; Chapter 15: Big Data in Health and Healthcare: Hopes and Fears for the Future Chapter 16: Medical Education: One Size Does not Fit AllSection IV: Security; Chapter 17: Introduction; Emergence of Non-State Powers and Terrorist Groups; Resizing the us Nuclear Arsenal; Cybersecurity; Intelligence; Biological Weapons; Us Defense Budget; Overview of Contributions; References; Chapter 18: Vigilance in an Evolving Terrorism Landscape: Chapter 19: The Market's Role in Improving Cybersecurity; References; Chapter 20: On Nuclear Weapons; Chapter 21: The Nuclear Security Challenge: It is International; Chapter 22: Nuclear Weapon Reductions Must be Part of Strategic Analysis Chapter 23: Maintaining us Leadership in Science, Technology, and Innovation for National SecuritySection V: Resilience: Chapter 24: Introduction; Framework for Urban Resilience; Potential Approaches; Overview of Contributions; References; Chapter 25: Urban Resilience: How Cities need to Adapt to Unanticipated and Sudden Change; References; Chapter 26: Buying Down Risks and Investing in Resilience; References: Chapter 27: Resilience from the Perspective of a Chief Urban Designer; Chapter 28: Engineering for Resilience: Ten Commandments of the Dutch Approach; System of Systems **Public Expertise**