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| 1. Record Nr. | UNINA9910838289003321 |
| Titolo | Cascading Failures in Power Grids : Risk Assessment, Modeling, and Simulation // edited by Kai Sun |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024 |
| ISBN | 3-031-48000-7 |
| Edizione | [1st ed. 2024.] |
| Descrizione fisica | 1 online resource (317 pages) |
| Collana | Power Electronics and Power Systems, , 2196-3193 |
| Disciplina | 929.374 |
| Soggetti | Electric power distribution Power electronics Electric power production Electric power-plants Energy Grids and Networks Power Electronics Electrical Power Engineering Power Stations |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Introduction -- Challenges in Risk Assessment, Modeling, and Simulation of Cascading Failures -- Industrial Practices and Criteria Against Cascading Failures -- Modeling of Cascading Failures and Blackouts Using Outage Data -- Interaction Models for Analysis and Mitigation of Cascading Failures -- Probabilistic Analytics on Cascading Failures -- Modeling Cascading Failures in Power Systems: Quasi-Steady-State Models and Dynamic Models -- Multi-Timescale Modeling, Risk Assessment, and Mitigation of Cascading Failures -- Quasi-Steady-State Simulation of Cascading Failures Considering Frequency. |
| Sommario/riassunto | Cascading failures as long chains of events and outages are threats to reliable operations of power grids and can lead to catastrophic blackouts with tremendous losses if not understood, prevented, or mitigated sufficiently. This book provides an in-depth and comprehensive presentation of emerging methods for risk assessment, |

modeling, and simulation of cascading failures in power grids. The methods are all supported by theories and experimental tests using realistic power grid models and data, and the contributors to this volume are leading scholars in the field. Specific topics covered include an introduction to cascading failures, probabilistic analytics of utility outage data and risks, quantitative influence and interaction models to understand and mitigate failure propagation, simulation of cascading failures using models of multiple time scales, and industrial criteria and practices against cascading failures. Cascading Failures in Power Grids: Risk Assessment, Modeling, and Simulation will provide comprehensive and in-depth coverage of state-of-the-art methods for all readers interested in cascading failures and will inspire researchers and engineers to develop emerging and practical tools in the future. The first book about risk assessment, modeling, and simulation of cascading failures in power grids; Covers both state-of-the-art methods and best industrial practices; All contributors are experts and active scholars in the field.

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| 2. Record Nr. | UNINA9911031562303321 |
| Autore | Bellanca Nicolo |
| Titolo | Causal Mechanisms and Social Change : An Interdisciplinary Framework // by Nicolò Bellanca |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Palgrave Macmillan, , 2025 |
| ISBN | 3-032-01384-4 |
| Edizione | [1st ed. 2025.] |
| Descrizione fisica | 1 online resource (294 pages) |
| Collana | Palgrave Studies in Classical Liberalism, , 2662-6489 |
| Disciplina | 303.4 |
| Soggetti | Evolutionary economics Institutional economics Economics Sociology Social sciences - Philosophy Philosophy and social sciences Institutional and Evolutionary Economics Political Economy and Economic Systems Social Theory Philosophy of the Social Sciences |
| Lingua di pubblicazione | Inglese |

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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Chapter 1: Sufficient causes in the social sciences -- Chapter 2: In search of sufficient causes in the social sciences -- Chapter 3: Conceptual frameworks of institutional change -- Conclusions: toward a social science of sufficient causes. |
| Sommario/riassunto | <p>In a world where social complexity defies linear explanation, this book offers a groundbreaking methodology for understanding how and why societies transform. At its core is a systematic repertoire of 48 causal mechanisms—from individual psychology to institutional dynamics—providing powerful analytical tools for decoding social change. This interdisciplinary framework transcends traditional boundaries, integrating insights from sociology, political science, economics, philosophy, and history into a unified language for the social sciences. Moving beyond abstract theory, Bellanca demonstrates how to identify ‘sufficient causes’—the decisive factors that, when present, guarantee specific social outcomes. The book progresses from individual mechanisms through conceptual frameworks to middle-range theories, offering both rigorous analysis and practical applications. Whether examining the rise of populism, institutional collapse, or collective mobilization, these tools reveal the hidden patterns driving social transformation. Essential for scholars, policymakers, and practitioners, this work provides not just understanding but actionable insights for those seeking to navigate—and influence—our rapidly changing world. Nicolò Bellanca is Associate Professor of Applied Economics at the University of Florence, specializing in institutional analysis and collective decision-making. His interdisciplinary research bridges economics, sociology, and political science. Author of <i>Isocracy: The Institution of Equality</i> (Palgrave Macmillan, 2019), he examines how formal rules and community dynamics shape inclusive governance. ></p> |