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Titolo	Survival under Uncertainty : An Introduction to Probability Models of Social Structure and Evolution / / by Dimitri Volchenkov
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Descrizione fisica	1 online resource (XIV, 238 p. 55 illus., 44 illus. in color.)
Collana	Understanding Complex Systems, , 1860-0832
Disciplina	519.2
Soggetti	Sociophysics Econophysics Social structure Equality Philosophy and social sciences Science—Social aspects Computational complexity Data-driven Science, Modeling and Theory Building Social Structure, Social Inequality Philosophy of the Social Sciences Societal Aspects of Physics, Outreach and Education Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Subsistence in Uncertainty -- Time and Institutions -- Inequality and the Laws of supply and demand -- Decision making under uncertainty -- Capitalization of uncertainty: stochastic theory of advantage -- Doubly stochastic branching process as a model of natural selection -- Human history as a stochastic process -- The stochastic model of social conformity and political instability -- Random walks over political regimes : History seems to never end -- Urbanization failure and a fission chain reaction of states.
Sommario/riassunto	This book introduces and studies a number of stochastic models of subsistence, communication, social evolution and political transition

that will allow the reader to grasp the role of uncertainty as a fundamental property of our irreversible world. At the same time, it aims to bring about a more interdisciplinary and quantitative approach across very diverse fields of research in the humanities and social sciences. Through the examples treated in this work – including anthropology, demography, migration, geopolitics, management, and bioecology, among other things – evidence is gathered to show that volatile environments may change the rules of the evolutionary selection and dynamics of any social system, creating a situation of adaptive uncertainty, in particular, whenever the rate of change of the environment exceeds the rate of adaptation. Last but not least, it is hoped that this book will contribute to the understanding that inherent randomness can also be a great opportunity – for social systems and individuals alike – to help face the challenge of “survival under uncertainty”.