1.	Record Nr.	UNINA9910677092403321
	Autore	Carta Silvio
	Titolo	Machine learning and the city : Applications in architecture and urban design. / / Silvio Carta
	Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , [2022] ©2022
	ISBN	1-119-74962-X 1-119-81507-X 1-119-74958-1
	Descrizione fisica	1 online resource : illustrations, maps
	Disciplina	711.40285
	Soggetti	Architecture and technology City planning Machine learning
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Sommario/riassunto	The twentieth century is replete with scientific and mathematical discoveries that have profoundly changed our world view. In physics, within a mere century, our view of the cosmos changed from a classical (Newtonian) to a relativistic one following Einstein's relativity theory in the early 1900s. In mathematics, Hilbert's faith in the closure of formal axiom systems fell apart with Godel's incompleteness theorem in the 1930s. Out of these ashes of lost deterministic foundations arose the sciences of complex systems, first in the study of non-equilibrium thermodynamics (under the intellectual leadership of Ilya Prigogine in Brussels) and later, in broader interdisciplinary terms, in New Mexico with the establishment of the Santa Fe Institute. Interestingly, a core element of this new paradigm-the notion of emergence-reflects the passage of the sciences and mathematics from a focus on closed and deterministic systems to open and dissipative systems where order, structure or patterns arise seemingly out of nowhere (at least as far as initial and boundary conditions are concerned).