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Autore	Mella Piero
Titolo	The Combinatory Systems Theory : A Powerful Theory for Understanding, Modeling and Simulating Collective Phenomena / / by Piero Mella
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-86946-X
Edizione	[2nd ed. 2025.]
Descrizione fisica	1 online resource (XXI, 381 p. 159 illus., 152 illus. in color.)
Collana	Progress in IS, , 2196-8713
Disciplina	658.4038
Soggetti	Knowledge management System theory Social sciences - Data processing Knowledge Management Complex Systems Computer Application in Social and Behavioral Sciences
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Livello bibliografico	Monografia
Nota di contenuto	The Theory of Combinatory Systems -- The Observable Variety Heuristic Models of Combinatory Systems -- Simulation Models The Combinatory Automaton -- The Heuristic Value of Combinatory Systems Theory.
Sommario/riassunto	This book adopts the logic of Systems Thinking and Control Systems,

presenting a simple but complete theory called the Theory of Combinatory Systems. This new theory describes, interprets, explains, and simulates collective phenomena and their observable effects. Such collective phenomena – many of which are “one way", non-repeatable or reproducible – can all be described and understood using the model, as simple as it is general, of combinatory systems; that is, systems formed by collectivities, or populations of non-connected and unorganized individuals of some species, which appear to be directed by an invisible hand that guides the analogous actions of similar individuals in order to produce an emerging collective phenomenon. This edition includes enhanced theories such as an analysis of potential interactions between combinatory systems and their dynamics, highlighting the role of the environment in which such systems operate. It also includes new examples and enhanced figures that illustrate how combinatory systems are observed in social, biological and physical contexts.