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|----|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Record Nr.              | UNICAMPANIAVAN0075932                                                                                                                                                                                                      |
|    | Autore                  | Peloso, Paolo Francesco                                                                                                                                                                                                    |
|    | Titolo                  | Modelli della mente e del corpo nell'opera medica di Pompeo Sacco (1634-1718) / Paolo Francesco Peloso ; memoria presentata dal s. e. Loris Premuda nell'adunanza ordinaria del 27 maggio 1995                             |
|    | Pubbl/distr/stampa      | Venezia, : Istituto veneto di scienze, lettere ed arti, 1996                                                                                                                                                               |
|    | ISBN                    | 88-86166-31-1                                                                                                                                                                                                              |
|    | Descrizione fisica      | VIII, 148 p. : ill. ; 24 cm.                                                                                                                                                                                               |
|    | Lingua di pubblicazione | Italiano                                                                                                                                                                                                                   |
|    | Formato                 | Materiale a stampa                                                                                                                                                                                                         |
|    | Livello bibliografico   | Monografia                                                                                                                                                                                                                 |
| 2. | Record Nr.              | UNINA9910568289503321                                                                                                                                                                                                      |
|    | Titolo                  | Higher-Order Systems / / edited by Federico Battiston, Giovanni Petri                                                                                                                                                      |
|    | Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022                                                                                                                                              |
|    | ISBN                    | 3-030-91374-0                                                                                                                                                                                                              |
|    | Edizione                | [1st ed. 2022.]                                                                                                                                                                                                            |
|    | Descrizione fisica      | 1 online resource (436 pages)                                                                                                                                                                                              |
|    | Collana                 | Understanding Complex Systems, , 1860-0840                                                                                                                                                                                 |
|    | Disciplina              | 001.434<br>003                                                                                                                                                                                                             |
|    | Soggetti                | System theory<br>Mathematical physics<br>Biophysics<br>Social sciences - Network analysis<br>Complex Systems<br>Theoretical, Mathematical and Computational Physics<br>Mathematical Methods in Physics<br>Network Research |
|    | Lingua di pubblicazione | Inglese                                                                                                                                                                                                                    |
|    | Formato                 | Materiale a stampa                                                                                                                                                                                                         |
|    | Livello bibliografico   | Monografia                                                                                                                                                                                                                 |

## Nota di bibliografia

Includes bibliographical references.

## Nota di contenuto

Higher-order systems as a modelling framework -- Graphs, simplicial complexes and hypergraphs: Spectral theory and topology -- Random Simplicial Complexes: Models and Phenomena -- Topological Data Analysis -- Flow-based Community Detection in Hypergraphs -- Pattern formation on hypergraphs -- Non-pairwise interaction in oscillatory ensembles: From theory to data analysis -- From symmetric networks to heteroclinic dynamics and chaos in coupled phase oscillators with higher-order interactions -- Explosive synchronization and multistability in large systems of Kuramoto oscillators with higher-order interactions -- Multiorder Laplacian for Kuramoto dynamics with higher-order interactions -- The Master Stability Function for Synchronization in Simplicial Complexes -- Geometry, Topology and Simplicial Synchronization -- Signal processing on simplicial complexes -- Social contagion on higher order structures -- Consensus Dynamics and Opinion Formation on Hypergraphs -- Collective games on hypergraphs -- Topological Data Analysis of Spatial Systems -- Higher-order description of brain function -- Higher-Order Interactions in Biology: The Curious Case of Epistasis.

## Sommario/riassunto

The book discusses the potential of higher-order interactions to model real-world relational systems. Over the last decade, networks have emerged as the paradigmatic framework to model complex systems. Yet, as simple collections of nodes and links, they are intrinsically limited to pairwise interactions, limiting our ability to describe, understand, and predict complex phenomena which arise from higher-order interactions. Here we introduce the new modeling framework of higher-order systems, where hypergraphs and simplicial complexes are used to describe complex patterns of interactions among any number of agents. This book is intended both as a first introduction and an overview of the state of the art of this rapidly emerging field, serving as a reference for network scientists interested in better modeling the interconnected world we live in.

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| 3. Record Nr.           | UNINA9910160098503321                                                                                       |
| Titolo                  | History and technology                                                                                      |
| Pubbl/distr/stampa      | [London], : Gordon and Breach, 1983-<br>Abingdon, Oxfordshire, UK, : Routledge, imprint of Taylor & Francis |
| ISSN                    | 1477-2620                                                                                                   |
| Disciplina              | 609                                                                                                         |
| Soggetti                | Technology - History<br>Technology - Social aspects<br>Technology<br>History<br>Periodicals.                |
| Lingua di pubblicazione | Inglese                                                                                                     |
| Formato                 | Materiale a stampa                                                                                          |
| Livello bibliografico   | Periodico                                                                                                   |
| Note generali           | Refereed/Peer-reviewed<br>Title from title screen.                                                          |