

1. Record Nr.	UNISOBSOBE00056559
Autore	Salerno, Nicola
Titolo	Terapeutica o sia cura metafisico-politico-legale delle malattie del corpo della società. Opera del dottor Nicola Salerno
Pubbl/distr/stampa	Napoli : Presso Giovanni De Bonis, 1820
Descrizione fisica	2 volumi ; 8°
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910254303603321
Titolo	Active Particles, Volume 1 : Advances in Theory, Models, and Applications // edited by Nicola Bellomo, Pierre Degond, Eitan Tadmor
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2017
ISBN	3-319-49996-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 402 p. 100 illus., 94 illus. in color.)
Collana	Modeling and Simulation in Science, Engineering and Technology, , 2164-3725
Disciplina	570.15118
Soggetti	Mathematical models System theory Mathematical physics Control theory Mathematical Modeling and Industrial Mathematics Complex Systems Theoretical, Mathematical and Computational Physics Systems Theory, Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di bibliografia

Includes bibliographical references at the end of each chapters.

Nota di contenuto

Albi, G., Burger, M., Haskovec, J., Markowich, P., Schlottbom, M., Discrete and Continuum Modeling of Biological Network Formation -- Albi, G., Pareschi, L., Toscani, G., Zanella, M., Recent Advances in Opinion Modeling: Control and Social Influence -- Aydodu, A., Caponigro, M., McQuade, S., Piccoli, B., Pouradier Duteil, N., Rossi, F., Trélat, E., Interaction Network, State Space, and Control in Social Dynamics -- Benamou, J., Carlier, G., Santambrogio, F., Variational Mean Field Games -- Bongini, M., Fornasier, M., Sparse Control of Multiagent Systems -- Burini, D., Gibelli, L., Outada, N., A Kinetic Theory Approach to the Modeling of Complex Living Systems -- Carrillo, J., Choi, Y., Pérez, S., A Review of Attractive-Repulsive Hydrodynamics for Consensus in Collective Behavior -- Choi, Y., Ha, S., Li, Z., Emergent Dynamics of the Cucker-Smale Flocking Model and its Variants -- Di Francesco, M., Fagioli, S., Rosini, M., Russo, G., Follow-the-Leader Approximations of Macroscopic Models for Vehicular and Pedestrian Flows -- Jabin, P., Wang, Z., Mean Field Limit for Stochastic Particle Systems.

Sommario/riassunto

This volume collects ten surveys on the modeling, simulation, and applications of active particles using methods ranging from mathematical kinetic theory to nonequilibrium statistical mechanics. The contributing authors are leading experts working in this challenging field, and each of their chapters provides a review of the most recent results in their areas and looks ahead to future research directions. The approaches to studying active matter are presented here from many different perspectives, such as individual-based models, evolutionary games, Brownian motion, and continuum theories, as well as various combinations of these. Applications covered include biological network formation and network theory; opinion formation and social systems; control theory of sparse systems; theory and applications of mean field games; population learning; dynamics of flocking systems; vehicular traffic flow; and stochastic particles and mean field approximation. Mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely, authoritative, and valuable resource.