

1. Record Nr.	UNINA9910743235403321
Titolo	Advances in Computational Modeling and Simulation // edited by Rallapalli Srinivas, Rajesh Kumar, Mainak Dutta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-16-7857-X 981-16-7856-1
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (243 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	003.3
Soggetti	Mathematics - Data processing Mathematical models Chemistry - Data processing Computational Science and Engineering Mathematical Modeling and Industrial Mathematics Computational Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Computation in Optimization and Control -- Multiscale and Multiphysics Modeling and Computation Analysis -- Environmental Modeling -- Modeling Approaches to Enterprise Systems and Services.
Sommario/riassunto	The book presents select proceedings of Global meet on 'Computational Modelling and Simulation, Recent Innovations, Challenges and Perspectives, 2020. This book covers leading-edge technologies from different domains such as computation in optimization and control, multiscale and multiphysics modeling and computation analysis, environmental modeling, modeling approaches to enterprise systems and services, finite element analysis, dependability and security, high-performance computation/cloud computing applications, computational biology and chemistry and computational mechanics. The primary goal of this book is to strengthen pre-eminence in computational modeling and simulation by catalyzing the transformative use of innovative developments in a wide range of disciplines to achieve lasting societal impact. The book discusses on how to perform simulation of large complex dynamic

systems in an efficient manner using advanced computational analysis. The inter-disciplinary nature of the book would be a valuable reference for academicians and research scientists, industrialists interested in modelling and simulation driven by computational technology.

---