

1. Record Nr.	UNINA9910456750103321
Autore	Sattenspiel Lisa
Titolo	The geographic spread of infectious diseases [[electronic resource]] : models and applications // Lisa Sattenspiel with contributions from Alun Lloyd
Pubbl/distr/stampa	Princeton, : Princeton University Press, c2009
ISBN	1-282-45808-6 1-282-93591-7 9786612935916 9786612458088 1-4008-3170-9
Edizione	[Course Book]
Descrizione fisica	1 online resource (299 p.)
Collana	Princeton series in theoretical and computational biology
Altri autori (Persone)	LloydAlun <1970->
Disciplina	614.401/5118
Soggetti	Communicable diseases - Epidemiology - Mathematical models Public health Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Chapter One. Introduction -- Chapter Two. The Art of Epidemic Modeling: Concepts and Basic Structures -- Chapter Three. Modeling the Geographic Spread of Influenza Epidemics -- Chapter Four. Modeling Geographic Spread I: Population-based Approaches -- Chapter Five. Spatial Heterogeneity and Endemicity: The Case of Measles -- Chapter Six. Modeling Geographic Spread II: Individual-based Approaches -- Chapter Seven. Spatial Models and the Control of Foot-and-Mouth Disease -- Chapter Eight. Maps, Projections, and GIS: Geographers' Approaches -- Chapter Nine. Revisiting SARS and Looking to the Future -- Bibliography -- Index
Sommario/riassunto	The 1918-19 influenza epidemic killed more than fifty million people worldwide. The SARS epidemic of 2002-3, by comparison, killed fewer than a thousand. The success in containing the spread of SARS was due largely to the rapid global response of public health authorities, which was aided by insights resulting from mathematical models. Models

enabled authorities to better understand how the disease spread and to assess the relative effectiveness of different control strategies. In this book, Lisa Sattenspiel and Alun Lloyd provide a comprehensive introduction to mathematical models in epidemiology and show how they can be used to predict and control the geographic spread of major infectious diseases. Key concepts in infectious disease modeling are explained, readers are guided from simple mathematical models to more complex ones, and the strengths and weaknesses of these models are explored. The book highlights the breadth of techniques available to modelers today, such as population-based and individual-based models, and covers specific applications as well. Sattenspiel and Lloyd examine the powerful mathematical models that health authorities have developed to understand the spatial distribution and geographic spread of influenza, measles, foot-and-mouth disease, and SARS. Analytic methods geographers use to study human infectious diseases and the dynamics of epidemics are also discussed. A must-read for students, researchers, and practitioners, no other book provides such an accessible introduction to this exciting and fast-evolving field.

2. Record Nr.	UNISA996418320003316
Titolo	Wireless Algorithms, Systems, and Applications [[electronic resource]] : 15th International Conference, WASA 2020, Qingdao, China, September 13–15, 2020, Proceedings, Part II // edited by Dongxiao Yu, Falko Dressler, Jiguo Yu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-59019-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVIII, 134 p. 57 illus., 45 illus. in color.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12385
Disciplina	004.6
Soggetti	Computer networks Computers Data protection Computers, Special purpose Application software Computer Communication Networks Computing Milieux Data and Information Security Special Purpose and Application-Based Systems Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Short Papers -- Cluster-based Routine Basic Safety Message dissemination in VANETs -- On-Road Vehicle Detection Algorithm Based on Mathematical Morphology -- Estimation of Short-term Online Taxi Travel Time Based on Neural Network -- Research on Algorithms for Finding Top-k Nodes in Campus Collaborative Learning Community under Mobile Social Network -- VES: A Component Version Extracting System for Large-Scale IoT Firmwares -- Virtual Location Generation for Location Privacy Protection in VANET -- Reliable Visible Light-Based Underground Positioning Algorithm Utilizing a New Mechanism: Reverse Transceiver Position -- Research on 5G Internet of Vehicles

Facilities based on Coherent Beamforming -- LPE-RCM: Lightweight Privacy-Preserving Edge-Based Road Condition Monitoring for VANETs -- Joint Switch Upgrade and VNF Placement for NFV-Based SDNs -- The Throughput Optimization for Multi-hop MIMO Networks Based on Joint IA and SIC -- A Novel Solution to Quality of Service Dilemma in Crowdsourcing Systems 100 -- C-DAG: Community-assisted DAG Mechanism with High throughput and Eventual Consistency -- Non-pre-trained Mine Pedestrian Detection Based on Automatic Generation of Anchor box. .

Sommario/riassunto

The two-volume set LNCS 12385 + 12386 constitutes the proceedings of the 15th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2020, which was held during September 13-15, 2020. The conference was planned to take place in Qingdao, China; due to the COVID-19 pandemic it was held virtually. The 67 full and 14 short papers presented in these proceedings were carefully reviewed and selected from 216 submissions. The papers focus on data path algorithms; control path algorithms; network protocol design; network security; network services; and cloud computing.
