

1. Record Nr.	UNINA9910903787803321
Autore	Zhao Qing
Titolo	Bayesian Analysis of Spatially Structured Population Dynamics // by Qing Zhao
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-64518-9
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (396 pages)
Collana	Ecological Studies, Analysis and Synthesis, , 2196-971X ; ; 253
Disciplina	519.542
Soggetti	Ecology Biometry Biotic communities Population biology Ecology - Methodology Landscape ecology Zoology Biostatistics Community and Population Ecology Ecological Modelling Landscape Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Background -- Chapter 2: Occupancy Models -- Chapter 3: N-mixture models -- Chapter 4: Integrated population models (IPMs) -- Chapter 5: Spatial capture-recapture (SCR) models -- Chapter 6: Summary and outlook.
Sommario/riassunto	The book introduces a series of state-of-art Bayesian models that can be used to understand and predict spatially structured population dynamics in our changing world. Several chapters are devoted to introducing models that utilize detection/non-detection data, count data, combined count and capture-recapture data, and spatial capture-recapture data, respectively. The book provides R code of Metropolis-Hastings algorithms that allow efficient computing of these complex

models. The book is aimed at graduate students and researchers who are interested in using and further developing these models.
