1. Record Nr. UNINA9910298352903321

Titolo	Ecological Modelling Applied to Entomology / / edited by Cláudia P. Ferreira, Wesley A.C Godoy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-06877-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (266 p.)
Collana	Entomology in Focus, , 2405-8548 ; ; 1
Disciplina	570 570.285 591.7 595.7
Soggetti	Invertebrates Animal migration Biomathematics Invertebrate Zoology Animal Migration Mathematical and Computational Biology
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 at the end of eah chapters and index.
Nota di contenuto	1: Insects and the Ecological Basis for Mathematical Modelling -- 2: Demographic processes in spatially structured host-parasitoid systems -- 3: Abiotic effects on population dynamics of mosquitoes and their influence on dengue transmission -- 4: Modelling the implications of temperature on the life cycle of Aedes aegypti mosquitoes -- 5: Predictive modelling of insect metacommunities in biomonitoring of aquatic networks -- 6: Modeling trophic interactions in insect population dynamics -- 7: Coupled Map Lattice Model for insects and spreadable substances -- 8: Computational Methods for Accurate Evaluation of Pest Insect Population Size -- 9: Models for over dispersed data in entomology.
Sommario/riassunto	This book provides a synopsis of the major topics currently studied in entomology combining population theory with experimentation. The

chapters address different ecological aspects important for agricultural and medical entomology, emphasising pest management and conservation. .