



ECOLOGICAL MODELLING

An International Journal on
**ECOLOGICAL MODELLING AND
SYSTEMS ECOLOGY**



Editor-in-chief
Brian D. Fath

CONTENTS

(Abstracts/contents list published in: Biological Abstracts, Cambridge Scientific Abstracts, Elsevier BIOBASE/Current Awareness in Biological Sciences, Current Contents AB & ES, Ecological Abstracts, Ecology Abstracts, Environment Abstracts, Environmental Periodicals Bibliography (EPB)); Also covered in the abstract and citation database SCOPUS®.
 Full text available on ScienceDirect®.

Articles

| | |
|---|----|
| A new approach for comparing and categorizing farmers' systems of practice based on cognitive mapping and graph theory indicators F.M. Vanwindekkens (Libramont, Belgium and Louvain-la-Neuve, Belgium), P.V. Baret (Louvain-la-Neuve, Belgium) and D. Stilmant (Libramont, Belgium)..... | 1 |
| Assessing the impact of climate change on the habitat distribution of the giant panda in the Qinling Mountains of China J. Fan, J. Li, R. Xia, L. Hu, X. Wu and G. Li (Beijing, China)..... | 12 |
| A multi-temporal approach to model endangered species distribution in Europe. The case of the Eurasian otter in Italy C. Maria Teresa (Pesche, Italy), G. Antoine, C. Carmen (Lausanne, Switzerland), S. Tiziana (Tito, Italy), L. Anna and C. Maria Laura (Pesche, Italy)..... | 21 |
| Mechanistic modeling of seed dispersal by wind over hilly terrain A. Trakhtenbrot (Jerusalem, Israel and Durham, NC, USA), G.G. Katul (Durham, NC, USA) and R. Nathan (Jerusalem, Israel)..... | 29 |
| Analysing changes in the southern Humboldt ecosystem for the period 1970-2004 by means of dynamic food web modelling S. Neira (Chile), C. Moloney (Cape Town, South Africa), V. Christensen (Vancouver, Canada), P. Cury (Sète, France), L. Shannon (Cape Town, South Africa) and H. Arancibia (Chile)..... | 41 |
| Kinetics of bioaccumulation of heavy metals in <i>Odontesthes bonariensis</i> is explained by a single and common mechanism M.V. Blanco (La Plata, Argentina), D.I. Cattoni (Montpellier, France), P. Carriquiriborde, J.R. Grigera (La Plata, Argentina) and O. Chara (La Plata, Argentina and Dresden, Germany)..... | 50 |
| The transition zones (ecotone) between boreal forests and peatlands: Modelling water table along a transition zone between upland black spruce forest and poor forested fen in central Saskatchewan D.D. Dimitrov, J.S. Bhatti and R.F. Grant (Edmonton, Canada)..... | 57 |
| Corrigendum to "Sensitivity analysis and pattern-oriented validation of TRITON, a model with alternative community states: Insights on temperate rocky reefs dynamics" [Ecol. Model. 258 (2013) 16-32] M.P. Marzloff, C.R. Johnson, L.R. Little (Hobart, Australia), J.-C. Soulié (Montpellier, France), S.D. Ling and S.D. Frusher (Hobart, Australia)..... | 71 |
| Bayesian estimation of abundance based on removal sampling under weak assumption of closed population with catchability depending on environmental conditions. Application to tick abundance S. Bord (Saint Genès Champanelle, France), P. Druilhet (Aubière, France), P. Gasqui, D. Abrial and G. Vourc'h (Saint Genès Champanelle, France).... | 72 |
| The Biodiversity Forecasting Toolkit: Answering the 'how much', 'what', and 'where' of planning for biodiversity persistence M. Drielsma (Armidale, Australia), S. Ferrier (Canberra, Australia), G. Howling, G. Manion, S. Taylor and J. Love (Armidale, Australia) | 80 |

