

CONTENTS

Automatic classification of native wood charcoal T.M. Maruyama, L.S. Oliveira, A.S. Britto Jr and S. Nisgoski	1	Spatial pattern assessment of tropical forest fire danger at Thuan Chau area (Vietnam) using GIS-based advanced machine learning algorithms: A comparative study N.T. Nguyen, B.-T. Ngo Dang, X.-C. Pham, H.-T. Nguyen, H.T. Bui, N.-D. Hoang and D.T. Bui	74
Expansion risk of invasive plants in regions of high plant diversity: A global assessment using 36 species J.-Z. Wan and C.-J. Wang	8	Assessing subjectivity in environmental sensor data post processing via a controlled experiment A.S. Jones, J.S. Horsburgh and D.P. Eriksson	86
Multivariate cyclical data visualization using radial visual rhythms: A case study in phenology analysis G.C. Mariano, V.G. Staggemeier, L.P.C. Morellato and R.d.S. Torres	19	The first artificial intelligence algorithm for identification of bat species in Uruguay G.B. Nuñez, G. Lemus, M.M. Wolf, A.L. Rodales, E.M. González and C. Crisci	97
Modeling the impact of immigration and climatic conditions on the epidemic spreading based on cellular automata approach A. Bouaine and M. Rachik	36	Dry stress decreases areas suitable for <i>Neoleucinodes elegantalis</i> (Lepidoptera: Crambidae) and affects its survival under climate predictions in South America R.S. da Silva, L. Kumar, F. Shabani, A.V. Ribeiro and M.C. Picanço	103
CropPhenology: An R package for extracting crop phenology from time series remotely sensed vegetation index imagery S. Araya, B. Ostendorf, G. Lyle and M. Lewis	45	How different are species distribution model predictions?—Application of a new measure of dissimilarity and level of significance to giant panda <i>Ailuropoda melanoleuca</i> Q. Huang, C.H. Fleming, B. Robb, A. Lothspeich and M. Songer	114
Bark and leaf fusion systems to improve automatic tree species recognition S. Bertrand, R. Ben Ameur, G. Cerutti, D. Coquin, L. Valet and L. Tougne	57		

Probabilistic description of vegetation ecotones using remote sensing H.M. de Klerk, N.D. Burgess and V. Visser	125	Evaluation of hydrologic and meteorological impacts on dengue fever incidences in southern Taiwan using time-frequency analysis methods C.W. Tsai, T.-G. Yeh and Y.-R. Hsiao	166
Air quality assessment using weighted interval type-2 fuzzy inference system J. Debnath, D. Majumder and A. Biswas	133	Validation of a high-resolution acoustic imaging sonar method by estimating the biomass of submerged plants in shallow water K. Mizuno, A. Asada, S. Ban, Y. Uehara, T. Ishida and N. Okuda	179
PhytoNumb3rs: An easy-to-use computer toolkit for counting microalgae by the Utermöhl method M.R. Vadrucci, L. Roselli, D. Castelluccia, T. Di Festa, D. Donadei, M. Florio, E. Longo, S. D'Arpa, F. Maci, S. Ranieri, M. Spinelli, A. Pastorelli and N. Ungaro	147	Influence of extent and data type on spatial conservation prioritization A.A.d. Lima and M.P. Pinto	185
Spatial pattern of GPP variations in terrestrial ecosystems and its drivers: Climatic factors, CO ₂ concentration and land-cover change, 1982–2015 Z. Sun, X. Wang, H. Yamamoto, H. Tani, G. Zhong, S. Yin and E. Guo	156	Optimizing community trees using the open tree of life increases the reliability of phylogenetic diversity and dispersion indices M. Gastauer, C.F. Caldeira, I. Trotter, S.J. Ramos and J.A.A. Meira Neto	192