

International Journal of Agricultural and Environmental Information Systems

January-March 2014, Vol. 5, No. 1

Table of Contents

SPECIAL ISSUE ON SPATIAL INFORMATION FOR ENVIRONMENTAL APPLICATIONS

GUEST EDITORIAL PREFACE

- iv Beniamino Murgante, *Laboratory of Urban and Territorial Systems, University of Basilicata, Potenza, Italy*
Petraq Papajorgi, *Canadian Institute of Technology, Tirana, Albania*
Francois Pinet, *Irstea/Cemagref, Clermont Ferrand, Aubiere, France*

RESEARCH ARTICLES

- 1 **Environmental Object Recognition in a Natural Image: An Experimental Approach Using Geographic Object-Based Image Analysis (GEOBIA)**
Jagannath Aryal, Discipline of Geography and Spatial Science, School of Land and Food, University of Tasmania, Hobart, Australia
Didier Josselin, UMR ESPACE, University of Avignon, Avignon, France
- 19 **Structure Analysis of Hedgerows with Respect to Perennial Landscape Lines in Two Contrasting French Agricultural Landscapes**
Sébastien Da Silva, LORIA, INRIA NGE, Vandœuvre-lès-Nancy, France & INRA, UR 1115, Plantes et Systèmes de culture Horticoles, Avignon, France
Florence Le Ber, ICUBE, Université de Strasbourg/ENGES, CNRS, Strasbourg, France
Claire Lavigne, INRA, UR 1115, Plantes et Systèmes de Culture Horticoles, Avignon, France
- 38 **Use of Geo-Information in Environmental Policy: Limitations, Advantages and Challenges**
Wies Vullings, Wageningen University and Research Centre, Alterra, Wageningen, Netherlands
Jandirk Bulens, Wageningen University and Research Centre, Alterra, Wageningen, Netherlands
Dennis Walvoort, Wageningen University and Research Centre, Alterra, Wageningen, Netherlands
- 59 **Flash Flood Hazard Assessment in Small Agricultural Basins Coupling GIS-Data and Cellular Automata Modelling: First Experimentations in Upper-Normandy (France)**
Johnny Douvinet, UMR ESPACE 7300 CNRS, University of Avignon and Pays du Vaucluse, Avignon, France

Copyright

The International Journal of Agricultural and Environmental Information Systems (IJAEIS) (ISSN 1947-3192; eISSN 1947-3206), Copyright © 2014 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The International Journal of Agricultural and Environmental Information Systems is indexed or listed in the following: Bacon's Media Directory; Compendex (Elsevier Engineering Index); DBLP; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory