

# Table of Contents

## International Journal of Agricultural and Environmental Information Systems

Volume 11 • Issue 1 • January-March-2020 • ISSN: 1947-3192 • eISSN: 1947-3206

### Research Articles

- 1 Fenômica: A Computer Vision System for High-Throughput Phenotyping**  
Marcos Roberto dos Santos, Universidade de Passo Fundo, Rio Grande do Sul, Brazil  
Guilherme Afonso Madalozzo, Universidade de Passo Fundo, Rio Grande do Sul, Brazil  
José Maurício Cunha Fernandes, Universidade de Passo Fundo, Rio Grande do Sul, Brazil  
Rafael Rieder, Universidade de Passo Fundo, Rio Grande do Sul, Brazil
- 23 Hadoop Paradigm for Satellite Environmental Big Data Processing**  
Badr-Eddine Boudriki Senglali, LIST Lab, Faculty of Sciences and Techniques of Tangier, Abdelmalek Essaâdi University, Morocco  
Chaker El Amrani, LIST Lab, Faculty of Sciences and Techniques of Tangier, Abdelmalek Essaâdi University, Morocco  
Guadalupe Ortiz, UCASE Research Group, Escuela Superior de Ingeniería, University of Cadiz, Spain
- 48 Big Data Challenges and Opportunities in Agriculture**  
Maya Gopal P.S., VIT University, Chennai, India  
Bhargavi Renta Chintala, School of Computing Science and Engineering, VIT University, Chennai, India
- 67 Concept Drift Detection in Data Stream Clustering and its Application on Weather Data**  
Namitha K., Artificial Intelligence and Computer Vision Lab, Department of Computer Science, Cochin University of Science and Technology, Kochi, Kerala, India  
Santhosh Kumar G., Artificial Intelligence and Computer Vision Lab, Department of Computer Science, Cochin University of Science and Technology, Kochi, Kerala, India
- 86 Prediction of Rice Yield via Stacked LSTM**  
Xiangyan Meng, College of Science, Northeast Agricultural University, Harbin, China  
Muyan Liu, College of Engineering, Northeast Agricultural University, Harbin, China  
Qiufeng Wu, College of Science, Northeast Agricultural University, Harbin, China

### COPYRIGHT

The *International Journal of Agricultural and Environmental Information Systems* (IJAEIS) (ISSN 1947-3192; eISSN 1947-3206), Copyright © 2021 IGI Global. From the journal's inception, January 1, 2010, to December 31, 2020, all rights, including translation into other languages is reserved by the publisher, unless otherwise stated in the article manuscript. As of January 1, 2021, this journal operates under the gold Open Access model, whereby all content published after this date is distributed under the terms of the Creative Commons Attribution 4.0 International (CC BY 4.0) License (<http://creativecommons.org/licenses/by/4.0/>) where copyright for the work remains solely with the author(s) of the article manuscript. 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; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)