## Contents

Reasoning Geo-Spatial Neutral Similarity from Seismic Data Using Mixture and State Clustering Models .......................... 1  
   *Avi Bleiweiss*

Web-Based Geoinformation System for Exploring Geomagnetic Field, Its Variations and Anomalies .............................. 22  
   *Andrei V. Vorobev and Gulnara R. Shakirova*

Identifying Local Deforestation Patterns Using Geographically Weighted Regression Models ........................................ 36  
   *Jean-François Mas and Gabriela Cuevas*

XQuery-Based Query Processing in Open Street Map .................... 50  
   *Jesús M. Almendros-Jiménez and Antonio Becerra-Terón*

The K Group Nearest-Neighbor Query on Non-indexed RAM-Resident Data ............................................................... 69  
   *George Roumelis, Michael Vassilakopoulos, Antonio Corral, and Yannis Manolopoulos*

Validation and Integration of Wheat Seed Emergence Prediction Model with GIS and Numerical Weather Prediction Models ........................................ 90  
   *R. Al-Habsi, Y.A. Al-Mulla, Y. Charabi, H. Al-Busaidi, and M. Al-Belushi*

Towards Geospatial Tangible User Interfaces: An Observational User Study Exploring Geospatial Interactions of the Novice ........................................ 104  
   *Catherine Emma Jones and Valérie Maquil*

Integration of a Real-Time Stochastic Routing Optimization Software with an Enterprise Resource Planner .......... 124  
   *Pedro J.S. Cardoso, Gabriela Schütz, Jorge Semião, Jânio Monteiro, João Rodrigues, Andriy Mazayev, Emanuel Ey, and Micael Viegas*

Using Conditional Probability and a Nonlinear Kriging Technique to Predict Potato Early Die Caused by *Verticillium Dahliae* ........................................ 142  
   *Luke Steere, Noah Rosenzweig, and William Kirk*

Using Linked Open Data in Geographical Information Systems ...... 152  
   *Patricia Carolina Neves Azevedo, Vitor Afonso Pinto, Guilherme Sousa Bastos, and Fernando Silva Parreiras*

**Author Index** ................................. 167
Geographical Information Systems Theory, Applications and Management
First International Conference, GISTAM 2015, Barcelona, Spain, April 28-30, 2015, Revised Selected Papers
Grueau, C.; Gustavo Rocha, J. (Eds.)
2016, XI, 167 p. 64 illus. in color., Softcover
ISBN: 978-3-319-29588-6