ISPRS Int. J. Geo-Inf. **2014**, *3*, 206-208; doi:10.3390/ijgi3010206

OPEN ACCESS

ISPRS International Journal of

Geo-Information

ISSN 2220-9964

www.mdpi.com/journal/ijgi/

Editorial

Introduction to the Special Issue: Geospatial Monitoring and Modeling of Environmental Change

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Received: 22 November 2013 / Accepted: 23 November 2013 / Published: 6 February 2014

Geospatial modeling is an approach to apply analysis to monitor environmental change over time considering different fields of re-search, including computer science, remote sensing, ecology, environmental science, life science, geography (see [1,2] for a critique).

The special issue was instigated to publish straightforward research on the matter in order to stimulate further discussion on the potential of geospatial modelling. Both theoretical and empirical papers are part of the issue with the support of the International Society for Photogrammetry and Remote Sensing, promoting an advanced forum for the science and technology of geographic information.

Due to the complexity of the theme being treated, the final issue composes seven heterogeneous and stimulating papers on geospatial monitoring and modeling of environmental change.

Table 1 attempts to summarize the focus of each of the articles published.

Table 1. Summary of the papers published in the special issue.

First Author	Main Frame	Theme	Ref.
Stuart Green	agriculture	a novel 2D ranked pair plot of coordinates to show and analyze the geographic distribution of farms	[3]
Ludovico Frate	landscape ecology	natural forest e-growth analyzed by midpoint displacement algorithms	[4]
Pietro Zambelli	computer science	PyGRASS library as an object-oriented Python Programming Interface (API) for Geographic Resources Analysis Support System (GRASS) Geographic Information System (GIS)	[5]
Shivani Agarwal	urban ecology	application of multi-spectral GeoEye imagery for mapping urban tree species	[6]

Table 1. *Cont.*

First Author	Main Frame	Theme	Ref.
Carlo Ricotta	landscape ecology	application of the Rao quadratic diversity for multiscale analysis of land use changes	[7]
Matteo Abrate	computer science	web based services to digitally preserve historical aerial photographs	[8]
Mehul Bhatt	computer science	conceptual models for representing geospatial events and their changes over time	[9]

Multitemporal environmental change is analyzed in very different manners in these papers covering both computer-science [5,8,9] and ecological/environmental main fields of research [3,4,6,7].

The special issue included authors from 11 different institutions from the following countries: Germany, India, Ireland, Italy, Sweden, and USA. I am grateful to the whole Editorial office of the ISPRS International Journal of Geo-Information and to all the reviewers who supported the special issue with their skills, ensuring robust and challenging papers which will stimulate further discussion on geospatial monitoring and modelling of environmental change.

Conflict of Interest

The authors declare no conflict of interest.

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