

Geomatic approaches for modelling land change scenarios

27 April, 2017 - Porto, Portugal

[GAMOLCS 2017 http://www.gistam.org/GAMOLCS.aspx](http://www.gistam.org/GAMOLCS.aspx)

In conjunction with the 3rd International Conference on Geographical Information Systems Theory, Applications and Management - **GISTAM 2017**

Chair(s): María Teresa Camacho Olmedo¹, Francisco Escobar²,
Jean François Mas³ and Martin Paegelow⁴

Universidad de Granada (Spain)¹, Universidad de Alcalá (Spain)²
Universidad Nacional Autónoma de México (México)³, Université de Toulouse Jean Jaurès (France)⁴

SECRETARIAT CONTACTS. GISTAM Workshops - GAMOLCS 2017

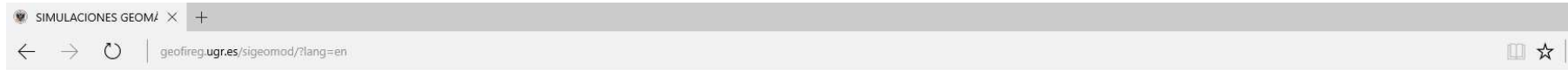
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GEOMATIC SIMULATIONS FOR MODELLING ENVIRONMENTAL DYNAMICS II
HORIZON 2020



Español

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Who we are



Previous Research



Publications

SIGEOMOD_2020 - BIA2013-43462-P

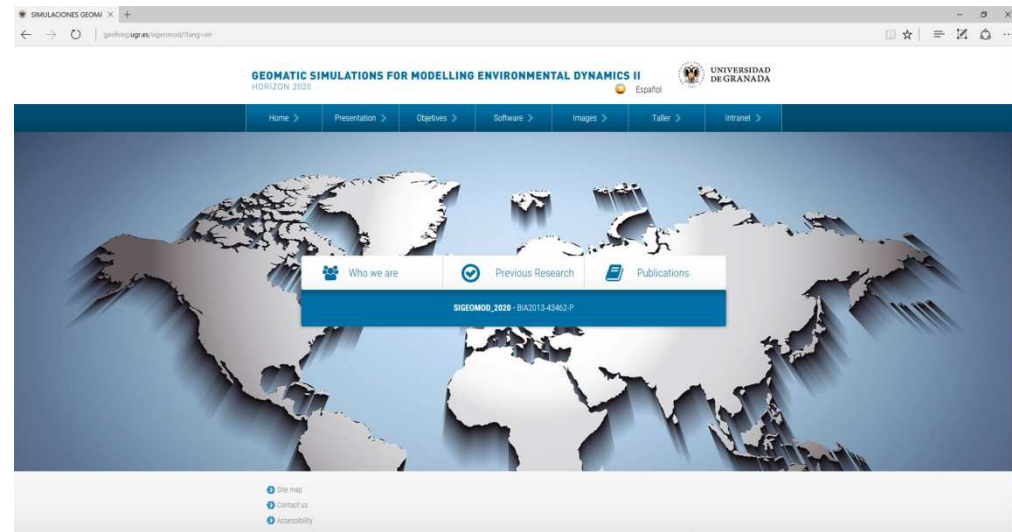
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- Research projects funded by the Spanish Ministry of Economy and Competitiveness and by the Regional European Fund FEDER
 - BIA2013-43462-P (2014-2017) **SIGEOMOD_2020**
 - BIA2008-00681 (2009-2012) **SIGEOMOD**
 - BIA2003-01499 (2003-2007)

- Network of researchers from Spain, France, Mexico, Italy, The Netherlands, Brazil, Luxembourg, Colombia and USA.

- Aims and topics of **SIGEOMOD_2020**:
 - LUCC modeling
 - Methods
 - Models comparison
 - Study areas comparison
 - Models assessment
 - LUCC scenarios





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The screenshot shows the Springer website interface. At the top, there is a search bar and navigation links for Home, Subjects, Services, Products, Springer Shop, and About us. The main content area is titled 'New & Forthcoming Titles' and features a list of books in the 'Lecture Notes in Geoinformation and Cartography' series. The first book listed is 'Lecture Notes in Geoinformation and Cartography' edited by Cartwright, W., Gartner, G., Meng, L., and Peterson, M.P. Below this, there are social media sharing options for Facebook, Twitter, and Google+. The second book listed is 'Trends and Technologies for Maps and the Internet' edited by Cammack, Rex (Ed.), published in 2017, with a price from ca. 103,99 €. The third book listed is 'New Advanced GNSS and 3D Spatial Techniques' edited by Cefalo, Raffaella, Zielinski, Janusz B., Barbarella, Maurizio (Eds.), published in 2017. The right sidebar contains sections for 'SERVICES FOR THE SERIES' (Contacts, Download Product Flyer) and 'ALERTS FOR THIS SERIES' (a form to receive the table of contents for new volumes).

<http://www.springer.com/series/7418?detailsPage>



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- Contributors (GAMOLCS and Springer book)
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➤ GAMOLCS program – All sessions in Room TUA

Session 1 Methodological developments

- Time 11.45-13.15
- Chairs: Jean-François Mas and Francisco Escobar

Session 2 Case studies

- Time 14.30-15.45
- Chairs: María Teresa Camacho and Martin Paegelow

Session 3 Round table

- Time 17.00-18.30
- Chairs: Francisco Escobar, Jean-François Mas, Martin Paegelow , María Teresa Camacho Olmedo
- Participants: Roger White, Montserrat Gomez, Keith Clark, Hedwig van Delden and Jose Barredo

Closing address – María Teresa Camacho



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GAMOLCS 2017: GAMOLCS Session 1

11:45 -13:15

Room Tua

Theme: Methodological developments

Session Chairs: Jean-François Mas, Universidad Autónoma de México, México
Francisco Escobar, Universidad de Alcalá, Spain

1 Improving SLEUTH Calibration with a Genetic Algorithm

Keith C. Clarke, Univ of California Santa Barbara

2 Cartographic Scale and Minimum Mapping Unit Influence on LULC Modelling

David García Álvarez, Univ of Granada

3 Modeling Land Change using One or Two Time Points based Calibration: A Comparison of Factors

Mería Teresa Camacho Olmedo, Univ of Granada

4 Land Change Modeling Handling with Various Training Dates

Martin Paegelow, Univ Jean-Jaurès Toulouse



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GAMOLCS 2017: GAMOLCS Session 2

14:30 -15:45

Room Tua

Theme:

Case studies

Session Chairs:

María Teresa Camacho Olmedo, Universidad de Granada, Spain
Martin Paegelow, Université Toulouse Jean Jaurès, France.

5 Mapping Socio-biodiversity: Do Old Modelling Tools Suit New Challenges?

Sónia Carvalho Ribeiro, William Leles da Costa, Amanda Ribeiro de Oliveira, Danilo da Silveira Figueira, Isabella Lorenzini da Silva Teixeira, Lilian Aline Machado, Herman Rodrigues Oliveira, Britaldo Silveira Soares Filho

6 Modelling Transport-based Land-use Scenarios in Bogota

Francisco Escobar (Univ of Alcalá), Daniel Paez (Univ Los Andes)

7 Using Constraint Cellular Automata to Simulate Urban Development in a Cross-border Area

J.-P. Antoni (Univ of Burgundy), V. Judge, G. Vuidel, O. Klein

8 Future Land Use Change Dynamics in Natural Protected Areas: Madrid Region Case Study

Marta Gallardo (Univ of Murcia), Javier Martinez-Vega



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GAMOLCS 2017: GAMOLCS Session 3

17.00-18.30

Room Tua

Session Chairs:

Francisco Escobar, Jean-François Mas, Martin Paegelow and María Teresa Camacho Olmedo

Understanding Cities and Regions as Complex Self-organizing Systems

Roger White, Memorial University of Newfoundland, St. John's, Canada

ROUND TABLE

Jose Barredo, Joint Research Center, Italy

Keith Clarke, Univ of California Santa Barbara

Montserrat Gómez, Universidad de Alcalá, Spain

Hedwig van Delden, RIKS (Research Institute Knowledge Systems), The Netherlands

Roger White, Memorial University of Newfoundland, St. John's, Canada