

Marco Painho  
Full Professor, Researcher  
NOVA Information Management School (NOVA IMS)  
NOVA IMS Research and Development Center (MagIC)



## Research interests

Marco **Painho** was born in Elvas, Portugal, in October 9, 1960 and is currently a Full Professor at the NOVA Information Management School (NOVA IMS of the Nova University of Lisbon (UNL).

Research interests include Geographical Information Systems and Science, (Spatial) Decision Support Systems, Data Integration, Spatial Analysis, Geographic User Generated Content, Information Infrastructures, New Technology Implementation GIS Education and Distance Learning (e-learning).

He has a degree in Environmental Engineering from the College of Science and Technology of the Nova University of Lisbon, a Master of Regional Planning (MRP) from the University of Massachusetts and a Doctor of Philosophy in Geography (Ph.D.) from the University of California. He obtained his habilitation from the Nova University of Lisbon

Besides his teaching activities, Marco **Painho** was NOVA IMS's Director (2000 -2010), as well as the Coordinator of Master's programme in Geographic Information Systems and Science via e-learning (2001 – 2008 and 2013 - ). He is the coordinator of the Master of Science in Geospatial Technologies (Erasmus Mundus).

He is author and editor of several publications (over 200) including books, chapters in books and articles. He has published in several national and international journals and conference proceedings.

He participates on a regular basis in national and international conferences and seminars as a paper author, session moderator, as well as in organising and programme committees of which ECIS'96, JEC'97 GISPlaNET'98, AGILE2002 – 2007 and CISTI 2013 are examples.

He has acted as a referee in scientific journals such as the International Journal of Geographical Information Science, Transactions in GIS, Photogrammetric Engineering and Remote Sensing, Environmental Modelling and Software, in the European Conference on Information Systems, in the Conference on Geographic Information Science (AGILE) and also in the Meetings of the Portuguese Association of GIS Users (USIG), the Portuguese Information Systems Association (APSI) and the Portuguese Association of Environmental Engineers (APEA). He was an evaluator for the European Programme INFO2000 (multimedia and geographic content) and a consultant for the European Programme FORM-AMI.

Marco **Painho** is the scientific co-ordinator of several funded research & development projects (25 projects) as well as community consulting (60 projects) within the New Technology Laboratory (LabNT). Sample projects include the Digital Environmental Atlas for the General Directorate for the Environment, the Spatial Geo-referenced Database for the National Statistics Institute, the Digital Map of European Ecological Regions for the National Museum of National History in Paris, the implementation of a GIS for resource management in a natural park in Brazil, SuGIK - Sustainable Geographic Information Knowledge Transfer for Postgraduate Education in Cape Verde and Mozambique (EDULINK), the Geographic Information System for Bus route Management (SIGGESC) for the Institute of Mobility and Transportation, and the Digital Sports Atlas of Mozambique.

He regularly advises graduate students (Masters and PhD) at NOVA IMS and other schools in the GIS area. He is also called as external committee member to Master and Phd dissertation defences and habilitation committees at other institutions.

He has served scientific and professional bodies of which the followings are examples: Member of the Scientific Committee of the European Environment Agency; Portuguese representative of the Thematic Cooperation Group: Earth Observation and Monitoring (within the IV Framework Programme – environment and Climate); President of the General Assembly of USIG (Association of Geographic Information Systems Users); President of the General Assembly of APEA (Portuguese Association of Environmental Engineers); Member of the Editorial Council of EDINOVA; Member of the Management Board e Steering Committee do European Topic Centre for Nature Conservation, Paris; Founding member of APEA (Portuguese Association of Environmental Engineers).

## Employment

### Full Professor

NOVA Information Management School (NOVA IMS)  
Universidade NOVA de Lisboa  
Lisboa, Portugal  
11 Aug 1973 → present

### Researcher

NOVA IMS Research and Development Center (MagIC)  
Universidade NOVA de Lisboa  
1 Jan 2013 → present

## Research output

1. **A multivariate approach to assess the structural determinants of large wildfires: Evidence from a Mediterranean country**  
Sousa, D., Cruz-Jesus, F., Sousa, A. & Painho, M., 4 Feb 2021, In : International Journal Of Wildland Fire. 14 p.
2. **Reliability evaluation of the data acquisition potential of a low-cost climatic network for applications in agriculture**  
Trilles, S., Juan, P., Díaz-Avalos, C., Ribeiro, S. & Painho, M., 18 Nov 2020, In : Sensors (Switzerland). 20, 22, p. 1-27 27 p., 6597.
3. **Remote estimation of target height from unmanned aerial vehicle (Uav) images**  
Tonini, A., Redweik, P., Painho, M. & Castelli, M., 2 Nov 2020, In : Remote Sensing. 12, 21, p. 1-24 24 p., 3602.
4. **Open Geospatial Data Contribution Towards Sentiment Analysis Within the Human Dimension of Smart Cities**  
Oliveira, T. H. M. D. & Painho, M., 8 Sep 2020, *Open Source Geospatial Science for Urban Studies: The Value of Open Geospatial Data*. Mobasher, A. (ed.). Gewerbestrasse 11, 6330 Cham, Switzerland: Springer, p. 75-95 20 p. (Lecture Notes in Intelligent Transportation and Infrastructure).
5. **Remotely sensed data fusion for spatiotemporal geostatistical analysis of forest fire hazard**  
Sakellariou, S., Cabral, P., Caetano, M., Pla, F., Painho, M., Christopoulou, O., Sfougaris, A., Dalezios, N. & Vasilakos, C., 3 Sep 2020, In : Sensors (Switzerland). 20, 17, p. 1-20 20 p., 5014.
6. **Geointelligence against illegal deforestation and timber laundering in the Brazilian Amazon**  
Perazzoni, F., Bacelar-Nicolau, P. & Painho, M., Jun 2020, In : ISPRS International Journal of Geo-Information. 9, 6, p. 1-29 29 p., 398.
7. **Understanding the determinants of GIT post-adoption: perspectives from Mozambican institutions**  
Amade, N., Oliveira, T. & Painho, M., May 2020, In : Heliyon. 6, 5, 11 p., e03879.
8. **Addressing geospatial preparedness inequity: A sustainable bottom-up approach for Non-Governmental development organizations**  
Martin, R. S., Painho, M. & Cruz-Jesus, F., 1 Dec 2019, In : Sustainability (Switzerland). 11, 23, 6634.
9. **Corrigendum to "Place and city: toward a geography of engagement" (Heliyon (2019) 5(8), (S2405844019359213), (10.1016/j.heliyon.2019.e02261))**  
Acedo, A., Oliveira, T., Naranjo-Zolotov, M. & Painho, M., 1 Sep 2019, In : Heliyon. 5, 9, 1 p., e02413.
10. **Place and city: toward a geography of engagement**  
Acedo, A., Oliveira, T., Naranjo-Zolotov, M. & Painho, M., 16 Aug 2019, In : Heliyon. 5, 8, 14 p., e02261.
11. **Geospatial preparedness: empirical study of the joint effort to provide geospatial support to disaster response**  
San Martin, R. & Painho, M., 26 Jun 2019, In : Transactions in GIS. 23, 3, p. 481-494

12. **Geographical patterns of the incidence and mortality of colorectal cancer in mainland Portugal municipalities (2007-2011)**  
Roquette, R., Painho, M. & Nunes, B., 29 May 2019, In : BMC Cancer. 19, 1, 512.
13. **Geospatial Preparedness: Empirical Study of Alternative Sources of Information for the Humanitarian Community**  
San Martin, R. & Painho, M., 29 May 2019, In : Journal of Homeland Security and Emergency Management. 16, 3
14. **A geographically weighted regression approach to investigate air pollution effect on lung cancer: A case study in Portugal**  
Cardoso, D., Painho, M. & Roquette, R., 13 May 2019, In : Geospatial Health. 14, 1, p. 35-45 11 p., 701.
15. **A Dashboard for Security Forces Data Visualization and Storytelling**  
Neto, M. D. C., Nascimento, M., Sarmiento, P., Ribeiro, S., Rodrigues, T. & Painho, M., 1 Jan 2019, *Information Systems for Industry 4.0: Proceedings of the 18th Conference of the Portuguese Association for Information Systems*. Ramos, I., Quaresma, R., Silva, P. R. D. & Oliveira, T. (eds.). Springer International Publishing, p. 47-62 16 p. (Lecture Notes in Information Systems and Organisation; vol. 31).
16. **Gamification: a key determinant of massive open online course (MOOC) success**  
Aparicio, M., Oliveira, T., Bação, F. & Painho, M., Jan 2019, In : Information and Management. 56, 1, p. 39-54 15 p.
17. **10 years of Master of Science in Geospatial Technologies: Development of a Web App with GeoTech students Data.**  
Kivrak, B., Oliveira, T. H. M. D. & Painho, M., 8 Dec 2018.
18. **giCASES: Case based learning in the field of Geographical Information**  
Painho, M., Baptista, A., Oliveira, T. H. M. D. & Carbonaro, M., 8 Dec 2018.
19. **Sustainability policies and practices in public sector organisations: The case of the Portuguese Central Public Administration**  
Figueira, I., Domingues, A. R., Caeiro, S., Painho, M., Antunes, P., Santos, R., Videira, N., Walker, R. M., Huisingh, D. & Ramos, T. B., 20 Nov 2018, In : Journal of Cleaner Production. 202, p. 616-630 15 p.
20. **Emotion & Stress Mapping based on social media content using ArcGIS Online: "Citizens as Sensors" revisited**  
Oliveira, T. H. M. D. & Painho, M., 25 Oct 2018.
21. **giCASES: uma abordagem inovadora no campo da Informação Geográfica**  
Painho, M., Baptista, A., Oliveira, T. H. M. D. & Carbonaro, M., 25 Oct 2018.
22. **Master of Science in Geospatial Technologies: Using Esri Web App Builder to create Student Diagnosis**  
Kivrak, B., Oliveira, T. H. M. D. & Painho, M., 25 Oct 2018.
23. **Geographic information technology usage in developing countries: a case study in Mozambique**  
Amade, N., Painho, M. & Oliveira, T., 2 Oct 2018, In : Geo-Spatial Information Science. 21, 4, p. 331-345 15 p.
24. **Implementation of a dashboard for security forces data visualization**  
Neto, M. D. C., Nascimento, M., Sarmiento, P., Ribeiro, S., Rodrigues, T. & Painho, M., 1 Oct 2018, *Atas da 18ª Conferência da Associação Portuguesa de Sistemas de Informação: a indústria 4.0 e os sistemas de informação*. Silva, P., Quaresma, R. & Oliveira, T. (eds.). Associação Portuguesa de Sistemas de Informação, Vol. 2018-October. 37 p. (Atas da Conferência da Associação Portuguesa de Sistemas de Informação).
25. **Modelos preditivos e segurança pública**  
Rodrigues, T. & Painho, M., 1 Oct 2018, Porto: Fronteira do Caos. 320 p.
26. **Place and city: toward urban intelligence**  
Acedo, A., Painho, M., Casteleyn, S. & Roche, S., 23 Aug 2018, In : ISPRS International Journal of Geo-Information. 7, 9, 21 p., 346.
27. **Design for geospatially enabled climate modeling and alert system (CLIMSYS): A position paper**  
Bhattacharya, D. & Painho, M., 1 Aug 2018, *10th International Conference on Geographic Information Science, GIScience 2018*. Schloss Dagstuhl- Leibniz-Zentrum fur Informatik GmbH, Dagstuhl Publishing, Vol. 114.
28. **GEO-C: Enabling open cities and the open city toolkit**  
Granell, C., Bhattacharya, D., Casteleyn, S., Degbelo, A., Gould, M., Kray, C., Painho, M. & Trilles, S., 11 Jul 2018, In : International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives. 42, 4W8, p. 61-68 8 p.
29. **Mapping and modelling malaria risk areas using climate, socio-demographic and clinical variables in Chimoio, Mozambique**  
Ferrão, J. L., Niquisse, S., Mendes, J. M. & Painho, M., 19 Apr 2018, In : International Journal of Environmental Research and Public Health. 15, 4, 795.
30. **The relevance of spatial aggregation level and of applied methods in the analysis of geographical distribution of cancer mortality in mainland Portugal (2009-2013)**  
Roquette, R., Nunes, B. & Painho, M., 27 Mar 2018, In : Population Health Metrics. 16, 1, 6.
31. **Gestural interaction with 3D objects shown on public displays: An elicitation study**  
Du, G., Degbelo, A., Kray, C. & Painho, M., 1 Jan 2018, In : Interaction Design and Architecture(s). 2018, 38, p. 184-202 19 p.

32. **Location intelligence for augmented smart cities integrating sensor web and spatial data infrastructure (SmaCiSENS)**  
Bhattacharya, D. & Painho, M., 1 Jan 2018, *GISTAM 2018 - Proceedings of the 4th International Conference on Geographical Information Systems Theory, Applications and Management*. SciTePress, Vol. 2018-March. p. 282-289 8 p.
33. **Análise espacial avançada no contexto da segurança interna**  
Cabral, P., Ribeiro, S., Ferreira, J. R. D. C. & Painho, M., 2018, *Modelos preditivos e segurança pública*. Rodrigues, T. & Painho, M. (eds.). Fronteira do Caos, p. 231-251
34. **Employee-Driven Sustainability Performance Assessment in Public Organisations**  
Coutinho, V., Domingues, A. R., Caeiro, S., Painho, M., Antunes, P., Santos, R., Videira, N., Walker, R. M., Huisingh, D. & Ramos, T. B., 2018, In : *Corporate Social Responsibility and Environmental Management*. 25, 1, p. 29-46 18 p.
35. **Modelação do crescimento urbano para a distribuição eficaz das forças de segurança: o caso português**  
Ribeiro, S., Cabral, P., Henriques, R., Bravo, J., Rodrigues, T. & Painho, M., 2018, In : *PROELIUM – Revista da Academia Militar*. 7, 14, p. 45-68
36. **O projecto SIM4SECURITY: um exemplo de aplicação de tecnologias diferenciadas em sede de políticas públicas**  
Painho, M. & Ribeiro, S., 2018, *Modelos preditivos e segurança pública*. Rodrigues, T. & Painho, M. (eds.). Fronteira do Caos, p. 157-167 10 p.
37. **Utilizzo di software geografico open source per l'istruzione e co-creazione di conoscenza nel settore dell'Informazione Geografica: il progetto giCASES**  
Minghini, M., Brovelli, M. A., Carbonaro, M., Östman, A., Frigne, D., Martirano, G., Painho, M., Prüller, S., Saio, G. & Vandenbroucke, D., 2018, p. 40-41. 2 p.
38. **Mobile traffic alert and tourist route guidance system design using geospatial data**  
Bhattacharya, D., Painho, M., Mishra, S. & Gupta, A., 25 Sep 2017, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*. Vol. 42. p. 11-18 8 p. (ISPRS Archives; vol. 42, no. 4W3).
39. **Smart Cities Intelligence System (SMACiSYS) Integrating Sensor Web with Spatial Data Infrastructures (sensdi)**  
Bhattacharya, D. & Painho, M., 25 Sep 2017, *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*. Vol. 4. p. 21-28 8 p.
40. **FOSS4G as a key building block for case-based learning in geographic information education**  
Minghini, M., Brovelli, M. A., Vandenbroucke, D., Carbonaro, M., Prüller, S., Painho, M., Martirano, G. & Frigne, D., 5 Jul 2017, *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (ISPRS Archives): FOSS4G-Europe 2017 – Academic Track*. Vol. 42. p. 129-135 7 p.
41. **Place and city: Operationalizing sense of place and social capital in the urban context**  
Acedo, A., Painho, M. & Casteleyn, S., 1 Jun 2017, In : *Transactions in GIS*. 21, 3, p. 503-520 18 p.
42. **Modelling the influence of climate on malaria occurrence in Chimoio Municipality, Mozambique**  
Ferrão, J. L., Mendes, J. M. & Painho, M., 25 May 2017, In : *Parasites and Vectors*. 10, 1, p. 1-12 12 p.
43. **Malaria mortality characterization and the relationship between malaria mortality and climate in Chimoio, Mozambique**  
Ferrão, J. L., Mendes, J. M., Painho, M. & Zacarias, S., 22 May 2017, In : *Malaria Journal*. 16, 1, 212.
44. **Beyond digital human body atlases: Segmenting an integrated 3d topological model of the human body**  
Barbeito, A., Painho, M., Cabral, P. & Goyri O'Neill, J., 1 Jan 2017, In : *International Journal of E-Health and Medical Communications*. 8, 1, p. 19-36 18 p.
45. **Blended learning education on precision farming in developing countries: The example of Cape Verde and Mozambique**  
Painho, M., Baptista, A., Atumane, A. & Simões, E., 2017, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*. Vol. 17. p. 9-16 8 p.
46. **Determinants of Geographic Information Technologies Intention and Adoption and Mozambique Institutions' Perspectives**  
Amade, N., Painho, M. & Oliveira, T., 2017, In : *Research Journal of Information Technology*. 2, 9, p. 64-73
47. **One tool to spatialize all: sense of place, social capital and civic engagement**  
Acedo, A., Mendoza, G., Painho, M. & Casteleyn, S., 2017, *Societal Geo-innovation: short papers, posters and poster abstracts of the 20th AGILE Conference on Geographic Information Science*. Bregt, A., Sarjakoski, T., Lammeren, R. V. & Rip, F. (eds.). Wageningen, the Netherlands: Wageningen University & Research, p. 1-5 5 p. (AGILE: The Annual International Conference on Geographic Information Science; no. 2017).
48. **Spatial epidemiology of cancer: A review of data sources, methods and risk factors**  
Roquette, R., Painho, M. & Nunes, B., 2017, In : *Geospatial Health*. 12, 1, 504.
49. **Urban Agent Based Model of Urban SlumDharavi, Mumbai,India**  
Padmanaban, R., Jerome, J., Asok V, S., Dasgupta, P. & Painho, M., 2017, In : *International Journal of Earth Sciences and Engineering*. 10, 6, p. 1110-1117

50. **User generated spatial content-integrator: Conceptual model to integrate data from diverse sources of user generated spatial content**  
Estima, J. & Painho, M., 1 Oct 2016, In : ISPRS International Journal of Geo-Information. 5, 10, 183.
51. **SIM4SECURITY: A forecast and spatial model for homeland security: PORTUGAL 2030**  
Rodrigues, T. M. F., Inácio, A. A., Araújo, D., Painho, M., Henriques, R., Cabral, P. D. C. B., Oliveira, T. H. M. D. & Neto, M. D. C., Oct 2016, *Atas do V Congresso Português de Demografia*. p. 326-335 10 p.
52. **Land cover monitoring for water resources management in Angola**  
Miguel, I., Navarro, A., Rolim, J., Catalão, J., Silva, J., Painho, M. & Vekerdy, Z., 1 Aug 2016, *Proceedings of Living Planet Symposium 2016*. European Space Agency, Vol. SP-740.
53. **Crop monitoring based on SPOT-5 Take-5 and sentinel-1A data for the estimation of crop water requirements**  
Navarro, A., Rolim, J., Miguel, I., Catalão, J., Silva, J., Painho, M. & Vekerdy, Z., 22 Jun 2016, In : Remote Sensing. 8, 6, 525.
54. **Spatio-temporal variation and socio-demographic characters of malaria in Chimoio municipality, Mozambique**  
Ferrão, J. L., Mendes, J. M., Painho, M. & João, S. Z., 21 Jun 2016, In : Malaria Journal. 15, 1, 329.
55. **Design for connecting spatial data infrastructures with Sensor Web (SENSDI)**  
Bhattacharya, D. & Painho, M., 3 Jun 2016, In : ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences. 3, p. 33-39 7 p.
56. **Crowdsourcing, citizen science or volunteered geographic information? The current state of crowdsourced geographic information**  
See, L., Mooney, P., Foody, G., Bastin, L., Comber, A., Estima, J., Fritz, S., Kerle, N., Jiang, B., Laakso, M., Liu, H. Y., Milčinski, G., Nikšić, M., Painho, M., Podör, A., Olteanu-Raimond, A. M. R. & Rutzinger, M., 1 May 2016, In : ISPRS International Journal of Geo-Information. 5, 5, 55.
57. **Exploring the human body space: A geographical information system based anatomical atlas**  
Barbeito, A., Painho, M., Cabral, P. & O'Neill, J. G., 1 Jan 2016, In : Journal of Spatial Information Science. 12, 2016, p. 87-111 25 p.
58. **Including geospatial tools for agriculture education in developing countries: a case for Cape Verde and Mozambique**  
Painho, M., Baptista, A., Atumane, A. & Simoes, E., 2016, *6th International Conference on Cartography and GIS*. p. 167-175 (International Conference on Cartography and GIS).
59. **Emotion & stress mapping: Assembling an ambient geographic information-based methodology in order to understand smart cities**  
Oliveira, T. H. M. D. & Painho, M., 28 Jul 2015, *2015 10th Iberian Conference on Information Systems and Technologies, CISTI 2015*. Institute of Electrical and Electronics Engineers Inc., 7170469
60. **TecGEO: Desenho e implementação do primeiro Massive Open Online Course (MOOC) em língua portuguesa no domínio da Ciências e Sistemas de Informação Geográfica**  
Oliveira, T. H. M. D. & Painho, M., 3 Jul 2015, *Experiências de Inovação Didática no Ensino Superior*. Portugal: Ministério da Educação e Ciência, p. 299-314
61. **Linking Agricultural Policies with Decision-Making: A Spatial Approach**  
Vaz, E., Painho, M. & Nijkamp, P., 3 Apr 2015, In : European Planning Studies. 23, 4, p. 733-745 13 p.
62. **Investigating the potential of OpenStreetMap for land use/land cover production: A case study for continental Portugal**  
Estima, J. & Painho, M., 1 Jan 2015, In : Lecture Notes in Geoinformation and Cartography. 9783319142791, p. 273-293 21 p.
63. **Is the heritage really important? A theoretical framework for heritage reputation using citizen sensing**  
Monteiro, V., Painho, M. & Vaz, E., 1 Jan 2015, In : Habitat International. 45, P2, p. 156-162 7 p.
64. **Spatial analysis of sustainability of urban habitats, introduction**  
Painho, M. O. T., Vaz, E., Kourtit, K. & Nijkamp, P., 1 Jan 2015, In : Habitat International. 45, NA, p. 71 1 p.
65. **AGILE 2015: Geographic information science as an enabler of smarter cities and communities**  
Bação, F., Santos, M. Y. & Painho, M., 2015, Kluwer Academic Publishers. 375 p. (Lecture Notes in Geoinformation and Cartography)
66. **AgIM: ensino pós-graduado em gestão de informação agrícola e agricultura de precisão em Cabo Verde e Moçambique**  
Painho, M., Baptista, A., Nascimento, J. & Atumane, A., 2015, *Atas das I Jornadas Lusófonas de Ciências e Tecnologias de Informação Geográfica*. Santos, J. G. D., Fonte, C., Figueiredo, R. F. D., Cardoso, A., Gonçalves, G., Almeida, J. P. & Baptista, S. (eds.). Imprensa da Universidade de Coimbra, p. 890-909 24 p.
67. **A topological multilayer model of the human body**  
Barbeito, A., Painho, M., Cabral, P. & O'Neill, J., 2015, In : Geospatial Health. 10, 2, p. 199-204 5 p., 375.

68. **Collaborative Governance in Marine Protected Areas: the Eco-Social Dialogue in the Empowerment of Changing Agents for the Sustainability of the Oceans**  
Vasconcelos, L. M. T. D., Oliveira, T. H. M. D. & Painho, M., 2015, *Sustainability in the 21st century: The Power of Dialogue*. Lisboa: Cafilesa, p. 23-32
69. **Detection of exogenous floating marine debris: An overview of techniques associated with remote sensing**  
Paige, M. & Painho, M., 2015, *Water Resources Management VIII*. Vol. 196. p. 537 - 548 (WIT Transactions on Ecology and the Environment).
70. **PPGIS: a collaborative governance of marine protected areas and public experience by using participation geographic information systems (PPGIS)**  
Painho, M., Oliveira, T. M. D., Calbet, Ó. V. & Dias, F., 2015, *Sustainability in the 21st Century: The Power of Dialogue*. Vasconcelos, L. & Silva, F. (eds.). Lisboa: MARGov, p. 70-81 12 p.
71. **Preface**  
Baçã, F., Santos, M. Y. & Painho, M., 2015, *AGILE 2015 - Geographic Information Science as an Enabler of Smarter Cities and Communities*. Kluwer Academic Publishers, Vol. 217.
72. **Spatial data infrastructure for the Zambezi valley (Mozambique)**  
Painho, M., Almeida, L. M., Martins, H., Adelino, A. & Oliveira, P., 2015, *SGEM 2015: 15th International Multidisciplinary Scientific GeoConference*. Vol. 2. p. 1079-1086 8 p.
73. **TecGEO: Desenho e implementação do primeiro Massive Open Online Course (MOOC) em língua portuguesa no domínio da Ciências e Sistemas de Informação Geográfica**  
Oliveira, T. H. M. D. & Painho, M., 2015, *CNaPPES 2015: Congresso Nacional de Práticas Pedagógicas no Ensino Superior*.
74. **The emotion-aware city: Development of a framework based on social media towards emotion & stress mapping**  
Oliveira, T. & Painho, M., 2015, *CAPSI 2015 - 15ª Conferência da Associação Portuguesa de Sistemas de Informação*.
75. **Using Ambient Geographic Information (AGI) in Order to Understand Emotion & Stress within Smart Cities**  
Oliveira, T. H. & Painho, M., 2015, *AGILE 2015 : 18th AGILE International Conference on Geographic Information Science*.
76. **Photo based volunteered geographic information initiatives: A comparative study of their suitability for helping quality control of corine land cover**  
Estima, J. & Painho, M., 1 Jul 2014, In : *International Journal of Agricultural and Environmental Information Systems*. 5, 3, p. 73-89 17 p.
77. **An Open Participatory Conceptual Framework to Support State of the Environment and Sustainability Reports**  
Ramos, T. A. B., Martins, I. P., Martinho, A. P., Douglas, C. H., Painho, M. O. T. & Caeiro, S., 1 Feb 2014, In : *Journal of Cleaner Production*. 64, p. 158-172
78. **An integrated model of the human body**  
Barbeito, A., Painho, M., Cabral, P. & O'Neill, J. G., 1 Jan 2014, *Atas da Conferencia da Associação Portuguesa de Sistemas de Informação*. Vol. 14. p. 30-45 16 p. (Atas da Conferencia da Associacao Portuguesa de Sistemas de Informacao).
79. **Atlas Desportivo de Moçambique**  
Oliveira, T. H. M. D., Painho, M., Batista, L. & Batista, A., 1 Jan 2014, Maputo: Ministério da Juventude e Desportos do Governo de Moçambique.
80. **Exogenous floating marine debris: Filling search and detection gaps using remote sensing**  
Paige, M. & Painho, M., 1 Jan 2014, *9th Iberian Conference on Information Systems and Technologies, CISTI 2014*. IEEE Computer Society, 6876887. (Iberian Conference on Information Systems and Technologies, CISTI).
81. **Análise e Projeção Multi-decenal das Alterações de Uso e Ocupação do Solo em Portugal Continental**  
Cabral, P., Santos, S., Zamyatin, A. & Painho, M., 2014, *Uso e Ocupação do Solo em Portugal Continental: Avaliação e Cenário Futuros*. Direção Geral do Território, p. 109-116
82. **Development of an agricultural management information system based on Open-Source solutions**  
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