

Marco Painho  
Full Professor  
NOVA Information Management School (NOVA IMS)  
Information Management Research Center (MagIC) - NOVA Information  
Management School



## 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 Knowldge 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

Full Professor

NOVA Information Management School (NOVA IMS)

Universidade NOVA de Lisboa

Lisboa, Portugal

1 Apr 1993 → present

### Integrated Researcher

Full Professor

Information Management Research Center (MagIC) - NOVA Information Management School

Universidade NOVA de Lisboa

Portugal

31 Dec 2016 → present

## Research output

1. **Defining Aerial Camera Pose and Solving Scale Ambiguities for Features' Positioning and Dimensioning**  
Tonini, A., Castelli, M., Pelizzari, F. & Painho, M., 5 May 2025, (E-pub ahead of print) In: IEEE Sensors Journal. 10 p.
2. **Enhancing pragmatic competence in investigator-initiated clinical trials: structure and evaluation of the CONSCIOUS II training programme**  
Rychlíčková, J., Čechová, Z., Nagy, V., Nebeská, K., Součková, L., Mouly, S., Kovacs, G. L., Kubiak, C., Takács, E., Moreira de Oliveira, T. H., Painho, M., Monteiro, E. C., Maia, S., Batuca, J. & Shiely, F., 8 Apr 2025, In: BMC Medical Education. 25, p. 1-7 7 p., 502.
3. **A Convolutional Neural Network-based approach for automatically detecting rainfall-induced shallow landslides in a data-sparse context**  
Salam, R., Pla, F., Ahmed, B. & Painho, M., Mar 2025, In: Natural Hazards Research. 5, 1, p. 175-186 12 p.
4. **Understanding Residential Address Patterns in Urban and Rural Areas: A Machine Learning Approach**  
Cruz, P., Vanneschi, L. & Painho, M., 30 Jan 2025, In: Transactions in GIS. 29, 1, p. 1-17 17 p., e70003.
5. **Visual-Inertial Method for Localizing Aerial Vehicles in GNSS-Denied Environments**  
Tonini, A., Castelli, M., Bates, J. S., Lin, N. N. N. & Painho, M., 17 Oct 2024, In: Applied Sciences. 14, 20, p. 1-13 13 p., 9493.
6. **A Method for Determining a Height of an Object from a Single Image Recorded by an Imaging Device Comprised by an Aerial Vehicle**  
Painho, M., Tonini, A. & Castelli, M., 9 Oct 2024, IPC No. G01C11/04, G06T7/73, G01C5/00, European Patent Office (EPO), Patent No. EP4119892B1, 12 Aug 2021, Priority date 15 Jul 2021, Priority No. PT2766221U
7. **From intention to action: How environmental setback perception mediates green purchase behaviour**  
Pontes, S., Naranjo-Zolotov, M. & Painho, M., 10 Sept 2024, In: Journal of Cleaner Production. 470, p. 1-13 13 p., 143285.
8. **Patterns of (dis)agreement: revealing differences in perceived neighborhood boundaries in Lisbon**  
Tang, V. & Painho, M., 30 May 2024, *Proceedings of the 27th AGILE Conference on Geographic Information Science, 2024*. Heppenstall, A., Wang, M., Demsar, U., Lemmens, R. & Yao, J. (eds.). Copernicus Publications, Vol. 5. p. 1-8 8 p. 44. (AGILE: GIScience Series (AGILE GISS); vol. 5).
9. **Method for estimating targets' dimensions using aerial surveillance cameras**  
Tonini, A., Painho, M. & Castelli, M., 1 Dec 2023, In: IEEE Sensors Journal. 23, 23, p. 28821-28832 12 p.

10. **Content-location relationships: a framework to explore correlations between space-based and place-based user-generated content**  
Tang, V. & Painho, M., 3 Aug 2023, In: International Journal Of Geographical Information Science. 37, 8, p. 1840–1871 32 p.
11. **Exploring the relationships between perceived neighborhood boundaries and street network orientation**  
Tang, V. & Painho, M., 1 May 2023, In: Transactions in GIS. 27, 3, p. 877-899 23 p.
12. **Building key competencies clinical trialists of the future: CONSCIOUS curriculum projects**  
Rychlickova, J., Batuca, J. R., Nagy, V., Shiely, F., Cechova, Z., Nebeska, K., Souckova, L., Mouly, S., Kovács, G. L., Németh, A., Oliveira, T., Painho, M., Maia, S. & Monteiro, E. C., 13 Apr 2023. 1 p.
13. **Estimation of Human Body Height Using Consumer-Level UAVs**  
Tonini, A., Painho, M. & Castelli, M., 1 Dec 2022, In: Remote Sensing. 14, 23, p. 1-21 21 p., 6176.
14. **A Decentralized Location-Based Reputation Management System in the IoT using Blockchain**  
Weerapanpisit, P., Trilles, S., Huerta, J. & Painho, M., 15 Aug 2022, In: IEEE Internet of Things Journal. 9, 16, p. 15100-15115 16 p.
15. **Rethinking the Campus Experience in a Post-COVID World: A Multi-Stakeholder Design Thinking Experiment**  
Victorino, G., Bandeira, R., Painho, M., Henriques, R. & Coelho, P. S., 1 Jul 2022, In: Sustainability. 14, 13, p. 1-13 13 p., 7655.
16. **Mapping a historic neighbourhood through user-generated content: the case of Alfama, Lisbon (Portugal)**  
Tang, V., Puri, J. & Painho, M., 20 Jun 2022, *Proceedings of the 25th AGILE Conference on Geographic Information Science, 2022*. Parseliunas, E., Mansourian, A., Partsinevelos, P. & Suziedelyte-Visockiene, J. (eds.). Vol. 3. p. 1-8 8 p. (AGILE: GIScience Series; vol. 63).
17. **Environment-Aware Regression for Indoor Localization based on WiFi Fingerprinting**  
Mendoza-Silva, G., Costa, A. C., Torres-Sospedra, J., Painho, M. & Huerta, J., 15 Mar 2022, In: IEEE Sensors Journal. 22, 6, p. 4978 - 4988 10 p.
18. **Automatic Identification of Addresses: A Systematic Literature Review**  
Cruz, P., Vanneschi, L., Painho, M. & Rita, P., 1 Jan 2022, In: ISPRS International Journal of Geo-Information. 11, 1, p. 1-27 27 p., 11.
19. **Few-Shot Learning for Post-Earthquake Urban Damage Detection**  
Koukouraki, E., Vanneschi, L. & Painho, M., 1 Jan 2022, In: Remote Sensing. 14, 1, p. 1-20 20 p., 40.
20. **Sense of place and the city: the case of non-native residents in Lisbon**  
Tang, V., Acedo, A. & Painho, M., 24 Dec 2021, In: Journal of Spatial Information Science. Special Issue: Special Feature on Interdisciplinary Perspectives on Place, 23, p. 125-155 31 p.
21. **Co-creating a sustainability performance assessment tool for public sector organisations**  
Ramos, T. B., Domingues, A. R., Caeiro, S., Cartaxo, J., Painho, M., Antunes, P., Santos, R., Videira, N., Walker, R. M. & Huisingsh, D., 20 Oct 2021, In: Journal of Cleaner Production. 320, 128738.
22. **Enabling geospatial context in an iot decentralised reputation management system using ethereum smart contracts**  
Weerapanpisit, P., Trilles, S., Huerta, J. & Painho, M., 23 Aug 2021, *2021 IEEE International Conference on Omni-Layer Intelligent Systems, COINS 2021*. Institute of Electrical and Electronics Engineers (IEEE), p. 1-6 6 p. (2021 IEEE International Conference on Omni-Layer Intelligent Systems, COINS 2021).
23. **Operationalizing places in GIScience: A review**  
Tang, V. & Painho, M., 21 Jun 2021, In: Transactions in GIS. 25, 3, p. 1127 - 1152 26 p.
24. **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., 1 Apr 2021, In: International Journal Of Wildland Fire. 30, 4, p. 241-254 14 p.
25. **Informação geográfica, sustentabilidade e Amazônia: geointeligência aplicada à avaliação de manejos florestais sustentáveis no Sul do Amazonas**  
Perazzoni, F., Painho, M. & Nicolau, P. B., 1 Mar 2021, 197 p.
26. **Open Geospatial Data Contribution Towards Sentiment Analysis Within the Human Dimension of Smart Cities**  
Oliveira, T. H. M. D. & Painho, M., 1 Jan 2021, *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).
27. **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. 20, 22, p. 1-27 27 p., 6597.
28. **Remote estimation of target height from unmanned aerial vehicle (Uav) images**  
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29. **Remotely sensed data fusion for spatiotemporal geostatistical analysis of forest fire hazard**  
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30. **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.
31. **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.
32. **MARFRONT: Portuguese Coast Permeability Model for Illegal Sea Entries**  
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33. **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. 11, 23, 6634.
34. **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 Sept 2019, In: Heliyon. 5, 9, 1 p., e02413.
35. **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.
36. **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
37. **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.
38. **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
39. **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.
40. **A Dashboard for Security Forces Data Visualization and Storytelling**  
Neto, M. D. C., Nascimento, M., Sarmento, 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.). Cham: Springer, p. 47-62 16 p. (Lecture Notes in Information Systems and Organisation; vol. 31).
41. **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 Jan 2019, *Geospatial Intelligence: Concepts, Methodologies, Tools, and Applications*. I. R. M. A. (ed.). IGI Global, Vol. 2. p. 1124-1142 19 p.
42. **Gamification: a key determinant of massive open online course (MOOC) success**  
Aparicio, M., Oliveira, T., Baçao, F. & Painho, M., Jan 2019, In: Information and Management. 56, 1, p. 39-54 15 p.
43. **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.
44. **giCASES: Case based learning in the field of Geographical Information**  
Painho, M., Baptista, A., Oliveira, T. H. M. D. & Carbonaro, M., 8 Dec 2018.
45. **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., Huisingsh, D. & Ramos, T. B., 20 Nov 2018, In: Journal of Cleaner Production. 202, p. 616-630 15 p.
46. **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.
47. **giCASES: uma abordagem inovadora no campo da Informação Geográfica**  
Painho, M., Baptista, A., Oliveira, T. H. M. D. & Carbonaro, M., 25 Oct 2018.
48. **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.
49. **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.
50. **Implementation of a dashboard for security forces data visualization**  
Neto, M. D. C., Nascimento, M., Sarmento, 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.). APSI - Associação Portuguesa de Sistemas de Informação, Vol. 2018-October. 37 p. (Atas da Conferencia da Associacao Portuguesa de Sistemas de Informacao).

51. **Modelos preditivos e segurança pública**  
Rodrigues, T. & Painho, M., 1 Oct 2018, Porto: Fronteira do Caos. 320 p.
52. **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.
53. **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, G/Science 2018*. Schloss Dagstuhl- Leibniz-Zentrum fur Informatik GmbH, Dagstuhl Publishing, Vol. 114.
54. **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.
55. **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.
56. **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.
57. **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.
58. **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 - Science and Technology Publications, Vol. 2018-March. p. 282-289 8 p.
59. **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
60. **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., Huisingsh, D. & Ramos, T. B., 2018, In: Corporate Social Responsibility and Environmental Management. 25, 1, p. 29-46 18 p.
61. **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
62. **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.
63. **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.
64. **Mobile traffic alert and tourist route guidance system design using geospatial data**  
Bhattacharya, D., Painho, M., Mishra, S. & Gupta, A., 25 Sept 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).
65. **Smart Cities Intelligence System (SMACiSYS) Integrating Sensor Web with Spatial Data Infrastructures (sensdi)**  
Bhattacharya, D. & Painho, M., 25 Sept 2017, *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*. Vol. 4. p. 21-28 8 p.
66. **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.
67. **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.
68. **Modelling the influence of climate on malaria occurrence in Chimoio Municipality, Mozambique**  
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69. **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.
70. **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.
71. **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.
72. **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
73. **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).
74. **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.
75. **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
76. **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.
77. **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*. Associação Portuguesa de Demografia, p. 326-335 10 p.
78. **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.
79. **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, 20 p., 525.
80. **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.
81. **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.
82. **Crowdsourcing, citizen science or volunteered geographic information? The current state of crowdsourced geographic information**  
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