



Damien Arvor

Researcher at CNRS - University of Rennes 2 (LETG Unit)

Geographer,

Analysis of agricultural dynamics in the Brazilian Amazon

Remote sensing expert,

land use and landscape monitoring

Education

- 2009 **PhD**, *University of Rennes 2*, Rennes.
Sujet : « Remote sensing-based analysis of soybean dynamics and the impacts of rainfall on production in Mato Grosso, Brazil ».
- 2005 **Master degree**, *University of Rennes 2*, Rennes.
Master G.A.S.E. (Geography, Land planning, Society and Environment)
- 2004 **Engineering degree**, *University of Technology of Troyes*, Troyes.
Industrial Systems - Safety and Environment
- 1999 **Baccalauréat**, *Lycée Bossuet*, Lannion.

Experience

- since 2014 **Researcher**, *CNRS*, UMR LETG, Rennes.
Monitoring of land cover dynamics in the Brazilian Amazon using remote sensing data.
- 2011–2014 **Post-doctoral fellowship**, *IRD*, UMR ESPACE-DEV, Montpellier.
Ontological applications related to remote sensing science.
- 2010–2011 **Post-doctoral fellowship**, *CIRAD*, UMR TETIS, Montpellier.
Remote sensing for health-environment applications.
- 2005–2009 **PhD in geography**, *University of Rennes 2*, UMR LETG, Rennes.
In partnership with *Embrapa Solos* in Brazil.

Collective Responsibilities

- 2020 **Co-animation of a team working on Ontologies and Spatial Dynamics in the French Research Group MAGIS.**

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- 2019 **Organization of a special session about:"BR-163: A hot spot of socio-environmental change in the Brazilian Amazon"**, *2nd Austrian conference on International Resource Politics*, Innsbrück.
- since 2018 **Board Member**, *UMR LETG*.
- since 2018 **Member of the Scientific Expert Center on Landscapes**, *CNES*.
- since 2015 **Responsible of the Remote Sensing & Geomatics group**, *UMR LETG*.
- 2014 **Organization of a special session on ontologies for remote sensing applications at an international conference**, *GEOBIA 2014 conference*, Thessaloniki, Greece.

Awards and Prices

- 2015–2016 **Rennes AIS**, *Awardee of Scholarship for Scientific Installation*.
40K€scholarship funded by Rennes Metropole.
- 2014 **CNRS**, *Awardee of the CNRS competitive selection to get a permanent research position at CNRS*.

Research programs (since 2016)

Coordination

- 2020–2022 **SCOLTEL**, *Climate and Land Cover change monitoring with Remote Sensing data*.
CNRS "International Emerging Action". I coordinate this cooperation project with the Satet University of Mato Grosso (UNEMAT), Brazil.
- 2018–2021 **CASTAFIOR**, *Characterization of tropical agro-ecosystem dynamics with remote sensing imagery*.
I coordinate this project funded by the French National Centre for Space Studies (CNES) in partnership with CIRAD.
- 2018–2021 **LandCoverMap**, *Integration of multisoucre remote sneisng data to map land cover in North Brazil and French Guyana*.
I coordinate this French-Brazilian project in partnership with Federal Institute of Maranhao (IFMA),Brazil.
- 2018–2019 **COGIRS**, *Cognition in Remote Sensing*.
Boost'ERC project funded by Brittany Region. I used the scholarship to apply for an ERC grant about ontologies in remote sensing.

Participation

- 2019–2022 **CiCIAMEn**, *Cities, Climate And vegetation: Modeling and Environmental public policies*.
French-Brazilian project with State University of São Paulo (UNESP).
- 2019–2021 **PAPIME**, *Tools for teaching geomatics with open source software*.
Mexican project to produce a R handbook for spatial data analysis.
- 2016–2019 **ODYSSEA**, *Observatory of the dynamics of interactions between societies and environment in the Amazon*.
H2020-MSCA-RISE European project. Leader of a Work Package on the observation of environmental dynamics.

- 2012–2016 **DURAMAZ 2**, *Towards an observatory of sustainability in the Brazilian Amazon*.
Project funded by the French National Research Agency (ANR).
- 2016–2019 **GeoABC**, *Satellite based multi-scale methods to support the governance of Brazilian low-carbon agriculture (ABC plan)*.
French-Brazilian project with State University of Rio de Janeiro (UERJ).
- 2017–2019 **PELD Planalto da Bodoquena**, *Fragmentation and functioning in savannah ecosystems: an experimental approach in the Planalto da Bodoquena, Mato Grosso do Sul*.
French-Brazilian project with Federal University of Mato Grosso do Sul (UFMS).
- 2017–2020 **DEPLORE**, *Deep Learning for Observation of earth Environment*.
Sino-French project with the Chinese Institute of Remote Sensing and Digital Earth (RADI) from the Chinese Academy of Sciences (CAS).
- 2017–2019 **APUREZA**, *Remote sensing analysis of relationship between urban landscapes and dengue and zika*.
Project funded by the French National Centre for Space Studies (CNES).

Teaching experience

- since 2015 **University of Rennes 2**, *Master TELENVI*.
Lectures on agricultural dynamics in the Brazilian Amazon and the use of R environment for remote sensing.
- since 2018 **Capacity building on R environment for spatial analysis**.
One-week formation given in France and Brazil and planned for Thailand.

Student supervision

Thesis jury

- 2020 **Pedro R. Mutti**, *Federal University of Rio Grande do Norte (Brazil) - Université Rennes 2 (France)*.
Drought monitoring characterization in the Northeast Brazil: A multiscale watershed analysis and remote sensing monitoring.
- 2016 **Claudio Almeida**, *IRD, UMR ESPACE-DEV*.
Landscape of agricultural systems in Rondonia State, Braizlian Amazon.
- 2016 **Zhichao Li**, *IRD, UMR ESPACE-DEV*.
Modelling relationships between land cover and malaria spatial distribution with remote sensing in Brazil-French Guyana border.

Thesis committee

- 2015–2018 **Beatriz Bellon**, *CIRAD, UMR TETIS*.
L'agronomie des paysages pour l'analyse régionale par télédétection de la sécurité alimentaire et des risques environnementaux liés à l'agriculture.
- 2015–2017 **Camille Jahel**, *CIRAD, UMR TETIS*.
Caractérisation de la dynamique des « systèmes de culture » en zone soudano-sahélienne de l'Afrique de l'Ouest par modélisation spatialisée des cultures et analyse de séries temporelles d'images satellite.

- 2014–2018 **Véronique Michot**, *Université Rennes 2*, UMR LETG.
Analyse spatiale et temporelle de la variabilité des régimes de précipitations dans le bassin amazonien.
- 2014–2018 **Bill Donatien Loubelo Madiela**, *Université Marien Ngouabi*, Brazzaville, Rép. du Congo.
Cartographie du gradient de végétation par télédétection et évaluation des stocks de carbone forestier dans les forêts du nord Congo.
- 2017–2019 **Cyntia Cavalcante Santos**, *Federal University of Mato Grosso do Sul*.
Ecological networks : connection drop, who loses with the habitat loss ?
- 2018–2021 **Patrick Calvano Kuchler**, *State University Estadual of Rio de Janeiro - CIRAD*.
Uso do sensoriamento remoto para a detecção de sistemas integrados de produção agropecuária: Uma contribuição para o monitoramento da agricultura de baixa emissão de carbono.
- 2018–2020 **Pedro R. Mutti**, *Federal University of Rio Grande do Norte (Brazil) - Université Rennes 2 (France)*.
Drought monitoring characterization in the Northeast Brazil: A multiscale watershed analysis and remote sensing monitoring.

Languages

English	Fluent	<i>Scientific English</i>
Portuguese	Bilingual	<i>Long journeys in Brazil</i>
German	Basis	<i>Goethe Institute diploma</i>

Editorial activities

- 2015–2020 > **20 reviews of scientific papers for international journals**, *Nature Sustainability, ISPRS Journal of Photogrammetry & Remote Sensing, Remote Sensing of Environment, Applied Geography, Sustainability, Remote Sensing, Confins, etc.*
- 2020 **Guest editor of a special issue in Remote Sensing journal**, *Assessing changes in the Amazon and Cerrado biomes with remote sensing.*

List of publications

Articles under review

1. **Arvor D.**, Betbeder J., Daher F., Blossier T., Le Roux R., Corgne S., Silgueiro V., da Silva Junior A. Towards user-adaptive remote sensing: knowledge-driven automatic classification of Sentinel 2 time series. *Remote Sensing of Environment* (Major revisions).
2. Amiot C., Santos Cavalcante C., **Arvor D.**, Bellon B., Fritz H., Harmange C., Holland J.D., Metzger J.-P., Renaud P.-C., de Oliveria Roque F, Souza Franco L., Pays O. The scale of effect depends on forest definition – evidence from terrestrial mammals of the Brazilian savanna. *Landscape Ecology* (Major revisions)
3. **Arvor D.**, Silgueiro V., Nabucet J., Manzon Nunes G., Pereira Dias A. The 2008 map of consolidated rural areas in the Brazilian Legal Amazon state of Mato Grosso: accuracy assessment and implications for the environmental regularization of rural properties. *Land Use Policy* (Minor revisions).
4. Tang J., **Arvor D.**, Corpetti T., Tang P. Mapping Center Pivot Irrigation Systems in the Southern Amazon from Sentinel-2 Images. *Water* (Minor revisions).

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Article in scientific journals

5. Mutti P.R., Dubreuil V., Bezerra B.G., **Arvor D.**, de Oliveira C.P., Santos e Silva C.M. 2020. Assessment of Gridded CRU TS Data for Long-Term Climatic Water Balance Monitoring over the São Francisco Watershed, Brazil. *Atmosphere*, 11(11), 1207. doi: 10.3390/atmos11111207
6. da Silva Junior, C.A., Teodoro, P.E., Delgado, R.C.,..., **Arvor D.**, et al. 2020. Persistent fire foci in all biomes undermine the Paris Agreement in Brazil. *Scientific Reports*, 10, 16246. doi: 10.1038/s41598-020-72571-w.
7. De Mello-Théry N., de Lima Caldas E., Funatsu B. M., **Arvor D.**, Dubreuil. V. 2020. Climate Change and Public Policies in the Brazilian Amazon State of Mato Grosso: Perceptions and Challenges. *Sustainability*, 12(12), 5093. doi: 10.3390/su12125093.
8. Kuchler P.C., Bégué A., Simões M., Gaetano R., **Arvor D.**, Ferraz R.P.D. 2020. Assessing the optimal preprocessing steps of MODIS time series to map cropping systems in Mato Grosso, Brazil. *International Journal of Applied Earth Observation and Geoinformation*, 92, 102150. doi: 10.1016/j.jag.2020.102150.
9. Rapinel S., Rozo, C., Delbosc P., **Arvor D.**, Thomas A., Bouzillé J.-B., Bioret F., Hubert-Moy L.. 2020. Mapping the functional dimension of vegetation series in the Mediterranean region using multitemporal MODIS data. *GIScience & Remote Sensing*, 57(1), 60-73. doi: 10.1080/15481603.2019.1662167
10. Hubert-Moy L., Thibault J., Fabre E., Rozo C., **Arvor D.**, Corpetti T., Rapinel S. 2019. Time-series spectral dataset for croplands in France (2006–2017). *Data In Brief*, 27. doi : 10.1016/j.dib.2019.104810.
11. Hubert-Moy L., Thibault J., Fabre E., Rozo C., **Arvor D.**, Corpetti T., Rapinel S. 2019. Mapping Grassland Frequency Using Decadal MODIS 250 m Time-Series: Towards a National Inventory of Semi-Natural Grasslands. *Remote Sensing*. 11, 24. doi : 10.3390/rs11243041.
12. Rapinel S., Fabre E., Dufour S., **Arvor D.**, Mony C., Hubert-Moy L. 2019. Mapping potential, existing and efficient wetlands using free remote sensing data. 247, 829-839 *Journal of Environmental Management*. doi: 10.1016/j.jenvman.2019.06.098
13. Michot V., **Arvor D.**, Ronchail J., Corpetti T., Jegou N., Lucio P.S., Dubreuil. V. 2019. Validation and reconstruction of rain gauge-based daily time series for the entire Amazon basin. *Theoretical And Applied Climatology*. 138, pp 759-775. doi: 10.1007/s00704-019-02832-w.
14. **Arvor D.**, Belgiu M., Falomir Z., Mougenot I., Durieux L. 2019. Ontologies to interpret remote sensing images: why do we need them? *GIScience & Remote Sensing*, 56, pp. 911-939. doi: 10.1080/15481603.2019.1587890.
15. Michot V., Vila D., **Arvor D.**, Corpetti T., Funatsu B., Dubreuil V., 2018. Performance of TRMM TMPA 3B42 V7 in Replicating Daily Rainfall and Regional Rainfall Regimes in the Amazon Basin (1998 - 2013). *Remote Sensing*, 10(12), 1879.
16. **Arvor D.**, Daher F., Briand D., Dufour S., Rollet A.-J., Simões M., Ferraz R.P.D. 2018. Monitoring thirty years of small water reservoirs proliferation in the southern Brazilian Amazon with Landsat time series. *ISPRS Journal of Photogrammetry and Remote Sensing*. doi : 10.1016/j.isprs.2018.03.015
17. Picoli M., Câmara G., Sanches I., Simões R., Carvalho A., Maciel A., Coutinho A., Esquerdo J., Antunes J., Begotti R., **Arvor D.**, Almeida C. 2018. Big Earth Observation Time Series Analysis for Monitoring Brazilian Agriculture. *ISPRS Journal of Photogrammetry and Remote Sensing*. doi : 10.1016/j.isprs.2018.08.007
18. Bégué A., **Arvor D.**, Bellon B., Betbeder J., de Aballeyra D., Ferraz R.P.D., Lebourgeois V., Lelong C., Simões M., Veron S.R. 2018. Remote sensing and cropping practices : a review.

- Remote Sensing. 10, 99.
19. Madiela B.D.L., **Arvor D.**, Biona C.B., Durieux L., 2018. Classification des séries temporelles Landsat-8 pour la cartographie du gradient de végétation dans le nord de la République du Congo. *Annales des Sciences et Techniques* 16 (1).
 20. **Arvor D.**, Funatsu, B., Michot V., Dubreuil V. 2017. Monitoring Rainfall Patterns in the Southern Amazon with PERSIANN-CDR Data: Long-Term Characteristics and Trends. *Remote Sensing*, 9, 889.
 21. **Arvor D.**, Tritsch I., Barcellos C., Jégou N., Dubreuil V. 2017. Land use sustainability on the South-Eastern Amazon agricultural frontier : Recent progress and the challenges ahead. *Applied Geography*. 80, 86-97.
 22. Andrés S., **Arvor D.**, Mougnot I., Libourel T., Durieux L. 2017. Ontology-based classification of remote sensing images using spectral rules. *Computers & Geosciences*, 102, 158-166.
 23. Laurent F., **Arvor D.**, Daugeard M., Osis R., Tritsch I., Coudel E., Piketty M.-G., Piraux M., Viana C., Dubreuil V., Hasan A.F., Messner F. 2017. Le tournant environnemental en Amazonie: ampleur et limites du découplage entre production et déforestation. *EchoGéo*, 41.
 24. Gusso A., **Arvor D.**, Ducati J. R. 2017. Model for soybean production forecast based on prevailing physical conditions. *Pesquisa Agropecuaria Brasileira*, 52(2), 95-113.
 25. Tritsch I., **Arvor D.** 2016. Transition in environmental governance in the Brazilian Amazon: emergence of a new pattern of socio-economic development and deforestation. *Land Use Policy*, 59, 445-455.
 26. **Arvor D.**, Daugeard M., Tritsch I., de Mello-Théry N.A., Théry H., Dubreuil V. 2016. Combining socioeconomic development with environmental governance in the Brazilian Amazon : the Mato Grosso agricultural frontier at a tipping point. *Environment, Development and Sustainability*. pp. 1-22. doi : 10.1007/s10668-016-9889-1
 27. Lucas R., Blonda P., Bunting P., Jones G., Inglada J., Arias M., Kosmidou V., Petrou Z.I., Manakos I., Adamo M., Charnock R., Tarantino C., Múcher C.A., Jongman R.H.G., Kramer H., **Arvor D.**, Honrado J.P., Marioral P. 2015. The Earth Observation Data For Habitat Monitoring (EODHaM) system. *International Journal of Applied Earth Observation and Geoinformation*. 37,17-28.
 28. Gusso A., **Arvor D.**, Ducati J. R., Veronez M. R., Silveira L. G. 2014. Assessing the MODIS Crop Detection Algorithm for Soybean crop area mapping and expansion in the Mato Grosso state, Brazil. *The Scientific World Journal*, 1-9.
 29. **Arvor D.**, Dubreuil V., Ronchail J., Simões M., Funatsu B. 2013. Spatial patterns of rainfall regimes related to levels of double cropping agriculture systems in Mato Grosso (Brazil). *International Journal of Climatology*. 34, 2622-2633.
 30. Gusso A., Ducati J.R., Veronez M.R., **Arvor D.**, Gonzaga da Silveira Jr L. 2013. Spectral model for soybean yield estimate using MODIS/EVI data. *International Journal of Geosciences*, 4, 1233-1241.
 31. **Arvor D.**, Durieux L., Andrés S., Laporte M.-A. 2013. Advances in Geographic Object-Based Image Analysis With Ontologies: a review of main contributions and limitations from a remote sensing perspective. *ISPRS Journal of Photogrammetry and Remote Sensing*, 82, 125-137.
 32. **Arvor D.**, Dubreuil V., Meirelles M.S.P., Bégué A. 2012. Mapping and spatial analysis of the soybean agricultural frontier in Mato Grosso, Brazil, using remote sensing data. *GeoJournal* 78(5), 833-850.
 33. Funatsu B.M., Dubreuil V., Claud C., **Arvor D.**, Gan, M.A. 2012. Convective activity in Mato Grosso State (Brazil) from microwave satellite observations: Comparisons between AMSU and

- TRMM datasets. *Journal of Geophysical Research* 117, D16109, 16 pp.
34. **Arvor D.**, Meirelles M. S. P., Dubreuil V., Shimabukuro Y. E., Bégué A., 2012. Analysing the agricultural transition in Mato Grosso, Brazil, using satellite-derived indices. *Applied Geography* 32, 702-713.
 35. Dubreuil V., **Arvor D.**, Debortoli N., 2012. Monitoring the pioneer frontier and agricultural intensification in Mato Grosso using SPOT Vegetation images. *Bulletin de la Société Française de Photogrammetrie*, n°200, pp.1-16.
 36. **Arvor D.**, Jonathan M, Meirelles M. S. P., Dubreuil V., Durieux, L., 2011. Classification of MODIS EVI time series for crop mapping in the state of Mato Grosso, Brazil. *International Journal of Remote Sensing*. 32(22), 7847-7871.
 37. **Arvor D.** (coord.), Gonçalves M. M., Moine S., Vitter M., 2010. A evolução do setor da soja no Mato Grosso. *Confins [online]*, 10. URL : <http://confins.revues.org/6767.html>
 38. **Arvor D.**, Dubreuil V., Mendez P., Ferreira M. C., Meirelles S. P. M., 2009. Développement, crises et adaptation des territoires du soja au Mato Grosso : l'exemple de Sorriso, *Confins [online]*, 6. URL : <http://confins.revues.org/index5934.html>
 39. Dubreuil V., Nédélec V., **Arvor D.**, Le Dérout M., Laques A.E., Mendez P., 2009: Colonisation et déforestation en Amazonie brésilienne: le front pionnier du Mato Grosso, *Enquêtes Rurales*, 12 : 107-135. URL : <http://halshs.archives-ouvertes.fr/halshs-00414116/fr/>
 40. **Arvor D.**, Dubreuil V., Ronchail J., Meirelles M. S. P., 2008, Apport des données TRMM à l'étude des précipitations au Mato Grosso, *Climatologie*, 5, 49-69.
 41. Dubreuil V., Laques A. E., Nédélec V., Gurgel H., **Arvor D.**, 2008, Paysages et fronts pionniers amazoniens sous le regard des satellites : l'exemple du Mato Grosso, *Espace Géographique*, 37, 57-74.

Conference proceedings

42. Kuchler P., Simões M., Bégué A., Ferraz R.P.D, **Arvor D.**. 2019. Séries temporais MODIS para a detecção de sistemas integrados de produção agropecuária: uma contribuição para o monitoramento da agricultura de baixa emissão de carbono. SBSR 2019, Santos, Brazil.
43. Kuchler P., Simões M., Bégué A., Ferraz R.P.D, **Arvor D.**. 2019. Modelagem de dados oriundos de sensoriamento remoto para o mapeamento de sistemas de integração lavoura-pecuária. SBSR 2019, Santos, Brazil.
44. **Arvor D.**, Funatsu B., Michot V., Dubreuil V. 2017. Padrões de precipitação no Sul da Amazônia baseado no PERSIANN-CDR: Características e tendências. SBSR 2017, Santos, Brazil.
45. Michot V., Vila D., **Arvor D.**, Funatsu B., Dubreuil V., Ronchail J. 2017. Performance of TRMM TMPA EB42 V7 RT in replicating daily rainfall and rainfall regimes in the Amazon basin (2000-2013). SBSR 2017, Santos, Brazil
46. Bailly A., **Arvor D.**, Chapel L., Tavenard R. 2016. Classification of MODIS time series with dense Bag-Of-Temporal-Sift-Words: Application to cropland mapping in the Brazilian Amazon. IEEE Geoscience & Remote Sensing Symposium, Pékin, Chine
47. **Arvor D.**, Loubelo Madiela B. D., Corpetti T. 2016. Semantic pre-classification of vegetation gradient based on linearly unmixed Landsat time series. IEEE Geoscience & Remote Sensing Symposium, Pékin, Chine.
48. **Arvor D.**; Daher F., Corpetti T., Laslier M., Dubreuil V. 2016. Monitoring of artificial water reservoirs in the Southern Brazilian Amazon with remote sensing data. SPIE conference, Edimbourg, Ecosse.
49. Negrão M.P., **Arvor D.**, Kohler F., Bizerra de Araujo M. E., Dagna S., Borges L.R.M. 2014. Dynamique territoriale et développement durable de l'agriculture familiale en Amazonie brésilienne:

- analyse des résultats préliminaires du programme DURAMAZ 2. Envibras 2014: Environnement et Géomatique: approches comparées France - Brésil. 12-15 nov. 2014, Rennes.
50. **Arvor D.**, Saint-Geours N., Dupuy S., Andrés S., Durieux L. 2013. Identifying optimal classification rules for geographic object-based image analysis. XVI Brazilian Symposium of Remote Sensing, Foz do Iguaçu, Brésil, Avril 2013.
 51. Andrés S., Pierkot C., **Arvor D.** 2013. Towards a semantic interpretation of satellite images by using geographic standards: focus on spatial relations, Geoprocessing, Nice, France, Février 2013.
 52. Laques A., Léna P., Castro I., Martins A., **Arvor D.**, Dessay N., Noda H., Do Nascimento Noda S., de Robert P., Loireau M., Guillaumet J.L., 2012. The effects of public policies on resource management strategies. The case of Upper Solimões (Amazonas State, Brazil). 13th Congress of the International Society of Ehtnobiology, Mai 2012
 53. Maatoug L., **Arvor D.**, Simões M., Bégué A., 2012. Monitoring crop phenology in Mato Grosso (Brazil) using remote sensing data. SELPER Symposium, Cayenne, French Guyana, Novembre 2012
 54. **Arvor D.**, Wiefels A., Saint-Geours N., Almeida C., Durieux L., Ose K. 2012. A methodology for determining optimal feature subset for classification in object-based image analysis. SELPER Symposium, Cayenne, French Guyana, Novembre 2012
 55. Andrés S., **Arvor D.**, Laporte M.-A., Durieux L., Libourel T., Mougnot I., Pierkot C. 2012. Ontologies Contribution to link thematic and remote sensing knowledge: preliminary discussions. SELPER Symposium, Cayenne, French Guyana, Novembre 2012.
 56. Andrés S., **Arvor D.**, Pierkot C., Towards an ontological approach for classifying remote sensing images, SITIS 2012, Sorrento, Naples, Italy, Novembre 2012.
 57. Andrés S., **Arvor D.**, Pierkot C. 2012. Une approche ontologique d'aide à la classification des objets d'une image satellitaire. SAGEO 2012, Liège, Belgique, Novembre 2012.
 58. **Arvor D.**, Kosmidou V., Libourel T., Adamo, M., Tarantino C., Lucas R. et al., 2012. Semantic nets for object-oriented land cover mapping: a preliminary example. GEOBIA 2012, Rio de Janeiro, Brésil, Mai 2012.
 59. **Arvor D.**, Dubreuil V., Meirelles M. S. P., 2011. Mapping the agricultural frontier in Mato Grosso with remote sensing data. XV Simposio Brasileiro de Sensoriamento Remoto, INPE, Curitiba, Brésil, Mai 2011, 8 p.
 60. **Arvor D.**, Stelling N., Van der Merwe M., Richter S., Richter A., Neumann G., Arloth J., Caldairou V., Naidoo R., Soti V., Padayachi Y., Quang C., Simonis I., 2011. Identification of Earth Observation data for health-environment studies. 34th International Symposium of Remote Sensing of Environment, Sydney, April 2011.
 61. **Arvor D.**, Dubreuil V., Meirelles M. S. P., 2010, La pluviométrie : un déterminant des pratiques culturelles au Mato Grosso. XXIIIe Colloque de l'Association Internationale de Climatologie, Rennes, septembre 2010.
 62. Funatsu B.M., Dubreuil V., Claud C., **Arvor D.** 2010. Variabilité spatio-temporelle du cycle diurne de la convection en Amazonie: observation satellitaires avec microondes. . XXIIIe Colloque de l'Association Internationale de Climatologie, Rennes, septembre 2010.
 63. **Arvor D.**, Meirelles M. S. P., Vargas R., Skorupa L. A., Fidalgo E. C. C., Dubreuil V., Herlin I, Berroir J.-P. 2010, Monitoring land use changes around the indigenous lands of the Xingu basin in Mato Grosso, Brazil. 2010 IEEE Geoscience Remote Sensing Symposium, Honolulu, Etats-Unis, 4 p.
 64. Dubreuil V., **Arvor D.**, Funatsu B., Delahaye F., 2010 : Climat et occupation du sol par télédétection en Amazonie brésilienne. Actes du colloque « Climat et Occupation du sol » de la

- Commission « Climat et Société » du Comité National Français de Géographie. Poitiers, mars 2010.
65. **Arvor D.**, Dubreuil V., Meirelles M. S. P. Analyse da intensificação da agricultura no Mato Grosso à partir de dados TRMM 3B42 e de series temporais MODIS/EVI, XIV Simposio Brasileiro de Sensoriamento Remoto, INPE, Natal-Brésil, 8 p.
 66. **Arvor D.**, Jonathan M., Meirelles M. S. P., Dubreuil V., 2008, Detecting outliers and asserting consistency in agriculture ground truth information by using temporal vi data from MODIS, XXIth ISPRS Congress, Pékin, Chine, pp. 1031-1036.
 67. Jonathan M., **Arvor D.**, Meirelles M. S. P., Dubreuil V., 2008, Field-oriented assessment of agricultural crops through temporal segmentation of MODIS VI data, XXIth ISPRS Congress, Pékin, Chine, pp. 921-926.
 68. **Arvor D.**, Jonathan M., Meirelles M. S. P., Dubreuil V., Lecerf R., 2008, Comparison of multitemporal MODIS-EVI smoothing algorithms and its contribution to crop monitoring, 2008 IEEE Geoscience Remote Sensing Symposium, Boston, Etats-Unis, 4 p.
 69. **Arvor D.**, Meirelles M. S. P., Martorano L. G., Jonathan M., Dubreuil V., Herlin I., Berroir J., 2008. Séries temporais de EVI/MODIS na identificação da dinâmica da Soja em Sistema Plantio Direto no Mato Grosso, Brasil, XVIIth RBMCSA, Rio de Janeiro, Brésil, 4 p.
 70. **Arvor D.**, Dubreuil V., Meirelles M. S. P., 2008. Détection de situations à risque pour la culture du soja à partir de données satellitaires TRMM et MODIS, Actes du XXIème colloque de l'Association Internationale de Climatologie, Montpellier, pp. 99-104.
 71. **Arvor D.**, Sant'Anna Neto J. L., Dubreuil V., Almeida I. V., Meirelles M. S. P., 2007. Análise dos perfis temporais de EVI/MODIS para o monitoramento da cultura da soja no Estado de Mato Grosso, Brasil. XIII Simposio Brasileiro de Sensoriamento Remoto, INPE, Florianópolis, pp. 51-58.
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