

Articles in Journals

- RESSTE Network et al. (In press) Analyzing spatio-temporal data with R : Everything you always wanted to know – but were afraid to ask. *Journal de la Société Française de Statistique*.
- Csilléry, K., Kunstler G., Courbaud, B., Allard, D., Lassegues, P., Haslinger, K., Gardiner, G. (2017) Coupled effects of wind-storms and drought on tree mortality across 115 forest stands from the Western Alps and the Jura mountains. *Global Change Biology*. DOI : 10.1111/gcb.13773
- Liu, S., Baret, F., Allard, D., Jin, X. Andrieu, B., Burger P., Hemmerlé M., Comar A. (2017) A method to estimate plant density and plant spacing heterogeneity : application to wheat crops. *Plant Methods*. 13 :38 DOI : 10.1186/s13007-017-0178-1.
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- Marcotte, D., Allard, D. (2017) Half-tapering strategy for conditional simulation with large datasets. *Stochastic Environmental Research and Risk Assessment. Online First*. DOI :10.1007/s00477-017-1386-z
- Bourotte, M., Allard, D., Porcu, E. (2016). A flexible class of non-separable cross-covariance functions for multivariate space-time data. *Spatial statistics*, **18**, 125 - 146. DOI : 10.1016/j.spasta.2016.02.00
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- Allard, D. and Bourotte, M. (2015) Disaggregating daily precipitations into hourly values with a transformed censored latent Gaussian process. *Stochastic Environmental Research and Risk Assessment*, **29**(2), 453–462. DOI 10.1007/s00477-014-0913-4
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doi :10.1016/j.spasta.2013.04.007
- Renard, P. and Allard, D. (2013) Connectivity metrics for subsurface flow and transport, *Advances in Water Ressources*, **51**. 168-196. doi :10.1016/j.advwatres.2011.12.001
- Girard, R. and Allard, D. (2012) Spatio-temporal propagation of wind power prediction errors, *Wind Energy*. doi :10.1002/we.1527
- Allard, D. and Soubeyrand, S. (2012) Skew-normality for climatic data and dispersal models for plant epidemiology : when application fields drive spatial statistics. *Spatial statistics*, **1**, 50-64.
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- Gabriel, E., Allard, D., Mary, B. and Guérif, M., (2007) Detecting zones of abrupt change in soil data, with an application to an agricultural field, *European Journal of Soil Science*, **58**, 1273-1284.
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Edited Book and Special Issues

- Allard, D., Stein, A. (2016) (Eds). Avignon 2015 : Emerging Pattern Special Issue. *Spatial statistics*, **18** (A) and (B) DOI : 10.1016/j.spasta.2016.07.002
- Allard D. (Ed) (2015) Special Issue on Stochastic Weather Generators, *Annales de l'ISUP* **59**. Åă
- Monestiez P., Allard D. and Froidevaux R. (Eds) (1999), *geoENV III : Geostatistics for environmental applications*, Kluwer Academic Publishers, Dordrecht.

Book reviews

- J.-P. Chilès, P. Delfiner : Geostatistics : Modeling Spatial Uncertainty 2nd Edition. Wiley, 2012. *Mathematical Geosciences*, 2013, **4**, 377-380. doi :10.1007/s11004-012-9429-y
- A.E. Gelfand, P.J. Diggle, M. Fuentes, P. Guttorp (eds.) : *Handbook of spatial statistics*, Chapman & Hall/CRC, Statistics and Computing, 2011, **21**, 293-294. doi :10.1007/s11222-010-9211-2

Other Refereed Papers and Book chapters

- Biver P., Zaytsev, V. Allard, D., Wackernagel, H. (2016) Geostatistics on unstructured grids, theoretical background and applications. In J.J. Gomez-Hernandez et al. (Eds) *Geostatistics Valencia 2016*, Springer, pp. 449-458.
- Biver P., D Allard D., Pivot F., Ruelland P. (2015) Recent Advances for Facies Modelling in Plurigaussian Formalism. In *Petroleum Geostatistics 2015*, Proceedings of a meeting held 7-11 September 2015, Biarritz, France, EAGE Publ., pp. 153-157
- D'Or, D., David, E., Walgenwitz, A., Pluyaud, P. Allard, D. (2017) Non stationary plurigaussian simulations with auto-adaptative truncation diagrams using the CART algorithm. *79th EAGE Conference & Exhibition*, 12-15 Juin, 2017. 6p.
- Arrouays, D. Marchant BP, Saby NPA, Meersmans J., Jolivet C, Orton TG, Martin MP, Bellamy PH, Lark RM, Louis BP, Allard D, Kibblewhite M. (2014) On soil carbon monitoring networks in *Soil Carbon*, Springer. pp 59-68. doi :10.1007/978-3-319-04084-4_6.
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- Biver, P. Allard, D. and D'Or, D. (2008), Litho-Type Modeling Using Soft-Probabilities from Seismic Attributes and other Sources of Information, in *Geostats "Santiago 2008"*, Eds. Ortiz, J.M. and Emery, X., Gecamin, pp. 319-328.
- D'or D., Allard, D. Biver, P. Froidevaux, R. and Walgenwitz, A. (2008), Simulating Categorical Random Fields Using the Multinomial Regression Approach, in *Geostats "Santiago 2008"*, Eds. Ortiz, J.M. and Emery, X., Gecamin, pp. 59-68.
- Allard, D. and Garrigues, S. (2008) Spatio-Temporal Modeling of Landscape Variograms, in *Geostatistics "Santiago 2008"*, Eds. Ortiz, J.M. and Emery, X., Gecamin, 449-458.
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- Allard, D. (2006), Validation d'un modèle géostatistique pour l'interpolation : application à un événement pluvieux, in *Statistiques Spatiales*, Eds. Droesbeke, J.-J. et Lejeune, M., Technip, Paris, pp. 403-414.
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- Bel, L., Laurent, J.M., Bar-Hen, A., Allard, D. and Cheddadi, R. (2005), A spatial extension of CART : Application to classification of ecological data, in *Geostatistics for Environmental Applications*, Eds. P. Renard H. Demougeot-Renard and R. Froidevaux, Springer, pp. 99-109.
- Allard D., Froidevaux R. and Biver P. (2005), Accounting for non-stationarity and interactions in object simulation for reservoir heterogeneity characterization, in *Geostatistics Banff 2004*, Eds. Leuangthong, O., Deutsch, C. V., Springer, pp. 155-164.
- Gabriel E. and Allard D. (2005), Assessing the power of zones of abrupt change detection test, in *Geostatistics Banff 2004*, Eds. Leuangthong, O., Deutsch, C. V., Springer, pp. 1103-1008.
- Garcia M., Allard D., Foulon D. and Delisle S. O. (2005), Fine scale rock properties : Towards the spatial modeling of regionalized probability distribution functions, in *Geostatistics Banff 2004*, Eds. Leuangthong, O., Deutsch, C. V., Springer, pp. 579-590.
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- Gabriel, E., Allard, D. and Bacro, J.N. (2004), Detecting Zones of Abrupt Change : application to soil data, in *geoENV IV : Geostatistics for Environmental Applications* Eds. Sanchez Vila, X. Carrera J. and Gomez Hernandez, J.J., Kluwer Academic Publisher, pp. 437-448.
- Courault, D., Oliosio, A., Lagouarde J.-P., Monestiez, P. and Allard, D. (2004), Influence des cultures sur les variables climatiques in *Organisation spatiale des activités agricoles et processus environnementaux*, Eds. Monestiez, P., Lardon S. et Séguin, B, INRA Editions, pp. 303-320.
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- Allard D., Armstrong M., and Kleingeld W. J. (1994), The Need for a Connectivity Index in Mining Geostatistics in *Geostatistics for the Next Century*, Ed. R. Dimitrakopoulos, Kluwer Academic Publishers, Dordrecht, pp. 293-302.
- Allard D. (1993), Simulating a Geological Lithofacies with Respect of Connectivity Information Using the Truncated Gaussian Model, in *Geostatistical Simulations*, Eds. M. Armstrong and P. Dowd, Kluwer Academic Publishers, Dordrecht, pp. 197-211.
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Invited Conferences

- Allard, D. (2017) Statistics for multivariate Space-Time Data : Models, methods and application to Stochastic Weather Generators. Spatial Statistics 2017, 4-7 Juillet 2017, Lancaster (GB)
- Allard, D., with Gaetan, C. (2017) A latent Gaussian approach for modeling geological sequences : model, inference and conditional simulation. The International Environmentrics Society, Bergamo, 24-26 July, 2017.
- Allard, D., with Bourotte, M. and Porcu E. (2017) A Flexible Class of Non-separable Cross-Covariance Functions for Multivariate Space-Time Data. Latin American Conference on Statistical Computing, Valparaiso, 9-11 March 2017.
- Allard, D., with Bourotte, M. and Porcu E. (2016) A multivariate multi-site Weather Generator based on a Flexible Class of non-separable Cross-Covariance Functions. Workshop on Stochastic Weather Generators, Vannes, 17-20 May, 2016
- Allard D., with Bourotte, M. and Porcu E. (2016) A Flexible Class of Non-separable Cross-Covariance Functions for Multivariate Space-Time Data. International Workshop on Spatio-Temporal Statistics, Imperial College London, 18-20 April 2016
- Allard D., Spatial Statistics : a discussion on Antonio Possolo's presentation. *Stu Hunter Conference*, Leuven, 8-11 March 2015.
- Allard D., Senoussi R. and Porcu E. Anisotropy models for spatial data. *Gaussian Random Fields Simulations Workshop*, Bern, 24-26 Novembre 2014.
- Allard, D., Davi, H., Naveau, P. and Tráifpos, R. Stochastic Weather Generators : what are they good for ? *Heteroclim Workshop*, Loches, 11-13 juin 2014.
- Allard D., López-Lozano R., Baret, F. A hierarchical Boolean model for estimating leaf area index from second order statistics of vertical gap fraction images. *Workshop on Stochastic Geometry and its application*, Grenoble, 3-5 avril 2013.
- Allard D., Brisson N.[†], Flecher C. and Naveau P. A weather generator for simulating multivariate climatic series. *Journée MASCOT-NUM "Modélisation pour l'environnement et expérimentation numérique"*, Paris, 21 Juin 2011.

- Brisson, N., Allard, D. and Dequé, M. Exploring the uncertainties in climate change impact studies on agriculture : results of the CLIMATOR project, *ACCAE 2010*, 20-22 octobre, Clermont Ferrand, France
- Allard, D. (2008) From geostatistics to spatial statistiscs : advaces and challenges, *8th Conference on Geostatistics for Environmental Applications*, Southampton (GB), September 2008.
- Allard, D., Naveau, Ph., Flecher, C. (2008) A skew-normal random field model : properties and estimation, *7th SSIAB Workshop*, Toulouse, May 2008.
- Allard D., Gabriel E. and Bacro J.N. Estimating and Testing Zones of Abrupt Changes for Spatial Data : From Local Tests to a Global Test. *WNAR/IMS conference*, Fairbanks (AL, USA), June 2005
- Allard D. Stationnarité, structuration et échelles. Point de vue géostatistique. *Séminaire multi-échelle*, GDR Sigma, Avignon, May 2003.
- Allard D. Validation d'un modèle géostatistique pour l'interpolation : application à un événement pluvieux, *Journées d'étude statistique en stati stiques spatiales*, September 2002, CIRMM.
- Allard D. Choix et validation d'un modèle d'interpolation spatiale : exemple de l'événement pluvieux du 8 mai 1986, en Suisse, *SMAI, congrès national de mathématiques appliquées et industrielles*, Mai 2001, Pompadour.
- Allard D. and Chadœuf J. Testing Spatial Point Process Models Using (pseudo) Bayes Factors, *ENAR Spring Meeting* March 1999, Atlanta, (GA, USA).

Other selected talks

- Benoit, L., Mariethoz, G., Allard, D. (2017) Sub-kilometer-scale space-time stochastic rainfall simulation. *Stochastic Weather Generators for Hydrological Applications* (SWGEM-Hydro). Berlin, 16-18 Septembre, 2017
- Benoit, L., Mariethoz, G., Allard, D. (2017) Stochastic rainfall generation from a censored latent Gaussian field : micro-scale parametrization. *The International Environmentrics Society*, Bergamo, 24-26 July, 2017.
- Benoit, L., Mariethoz, G., Allard, D. (2017) Local modelling of spatial rainfall patterns and their dynamics. *Spatial Statistics 2017*, 4-7 Juillet 2017, Lancaster (GB)
- Carrizo, R., Desassis, N, Allard, D. (2017) Development of Geostatistical models using Stochastic Partial Differential Equations. *Spatial Statistics 2017*, 4-7 Juillet 2017, Lancaster (GB)
- Allard, D., Marchant, T. (2016) Means and covariance functions for spatial compositional data : an axiomatic approach, *10th International Geostatistical Congress*, Valencia, 4-9 September, 2016
- D'Or, D., Allard, D. Biver, P. (2016) Introducing proportion uncertainties in categorical variable simulations. *10th International Geostatistical Congress*, Valencia, 4-9 September, 2016
- Allard, D., Bourotte, M., Porcu E. (2016) A Flexible Class of Non-separable Cross-Covariance Functions for Multivariate Space-Time Data. *International METMA VIII*, Valencia, 1-3 June 2016.
- Allard D., Senoussi R. and Porcu E. (2014) A new class of anisotropy models. *International Conference on Geostatistics for the Environment*, Paris, 8-11 juillet 2014.
- Walgenwitz, A., Allard, D., and Biver, P. (2014) Conditional object-based simulations of "flexible" objects. *International Conference on Geostatistics for the Environment*, Paris, 8-11 juillet 2014.
- Bourotte M. and Allard D. (2014) A New Parametric Class Of Cross-Covariance Functions For Multivariate Spatio-Temporal Random Fields. *International Conference on Geostatistics for the Environment*, Paris, 8-11 juillet 2014.

- Allard, D. Porcu, E. and Senoussi, R. (2014) Characterization and new models of anisotropy for spatial data. *10th French-Danish workshop in Spatial Statistics and Image Analysis in Biology*, Aalborg, Denmark, 20–23 mai 2014.
- Saby, N., Bourgeois, A., Allard, D., Boukir, H., Martin, M.P., Bardy, M. Arrouays, D. Testing the implementation of sampling designs for soil carbon monitoring. *Soils in Space and Time*, Ulm, 30 Septembre – 5 Octobre 2013.
- Bourotte, M. and Allard, D. (2013) Un générateur stochastique de séries pluviométriques pour la désagrégation de données journalières en données horaires. *45ième Journées de statistiques, Toulouse*, 27–31 mai 2013.
- Allard D., López-Lozano R., Baret, F. A hierarchical Boolean model for estimating leaf area index from second order statistics of vertical gap fraction images *IX conference on Geostatistics for Environmental Applications*, Valencia, 19–21 septembre 2012.
- D’Or D. and Allard D. Correcting the bias of proportions in non stationary simulations with the Markov-type categorical prediction algorithm. *IX conference on Geostatistics for Environmental Applications*, Valencia, 19–21 septembre 2012.
- Walgenwitz A. and Allard D. A fast and precise algorithm for kriging with large data sets on very large grids. *IX conference on Geostatistics for Environmental Applications*, Valencia, 19–21 septembre 2012.
- Renard P. and Allard D. Connectivity metrics for subsurface flow and transport. *IX conference on Geostatistics for Environmental Applications*, Valencia, 19–21 septembre 2012.
- Allard D., D’Or D., Biver P. and Froidevaux R. Non-parametric diagrams for plurigaussian simulations of lithologies. *Ninth International Geostatistics Congress*, Oslo, Norway June 11 – 15, 2012.
- Comunian A., Allard D., Renard P. (2012) A Review of Probability Aggregation Methods in Earth Sciences. *Ninth International Geostatistics Congress*, Oslo, Norway June 11 – 15, 2012.
- Allard D., Brisson N.[†], Flecher C. and Naveau P. (2012) A weather generator for simulating multivariate climatic series. *First Workshop on Stochastic Weather Generators*, Roscoff, May 29th - June 1st, 2012
- Allard D., Renard P., Comunian A. and D’Or D. Combining probabilities with log-linear pooling : application to spatial data *9th French-Danish workshop in Spatial Statistics and Image Analysis in Biology*, Avignon, France, 9-11 mai 2012.
- Allard D., Flecher, C. and Naveau, P. A weather generator for simulating multivariate climatic series. 1st Conference on Spatial Statistics 2011, Enschede (NL), 23-25 March 2011.
- D’Or, D., Allard, D. and Froidevaux, R. (2010) Incorporating non stationarity in categorical variables simulations with MCS. 8th Conference on Geostatistics for Environmental Applications, Gent, Belgium, 13-15 September 2010.
- Flecher, C., Naveau, Ph. and Allard, D. Estimating the Closed Skew-Normal distributions parameters using weighted moments. METMA 4, Sardinia (IT), September 2008.
- Allard D., Gabriel E. and Bacro J.N. “Estimating and Testing Zones of Abrupt Changes for Spatial Data : From Local Tests to a Global Test.” Geophysical Statistics Project Lecture Series in Statistics at NCAR Boulder (CO, USA), June 2005
- Peyrard N., Allard, D. and Forbes F. “Comparaison de deux modélisations pour la classification de données géostatistiques”, Journées de Statistique de la SFdS, Pau, June 2005.
- Allard D., Forbes F. and and Peyrard N. “Comparing Two Models for Clustering Spatial Data”, Working Group on Model-based Clustering, Seattle (WA, USA)), July 2004.

- Garrigues, S., Allard, D. and Baret, F. “Characterization of Spatial Heterogeneity and Spatial Structure at Landscape Scale”, in Abstract of Association of Geophysical Union Joint Assembly, Montreal (CA), May 2004.
- Garrigues, S., Allard, D. and Baret, F., Weiss, M. “Spatial heterogeneity Characterization for Scaling Non linear Processes” in Abstract of Association of Geophysical Union Joint Assembly, Montreal (CA), May 2004.
- Naveau P., Allard D. and Genton M. “Modeling Skewness in Geosciences : Applications to Kalman filtering and spatial interpolation” Geophysical Statistics Project Lecture Series in Statistics at NCAR Boulder (CO, USA), June 2004.
- Allard D., Baragnon, G. “Détection d’une rupture dans des séries de floraison de pommiers ; approche bayésienne”, Journée de la la Mission Changement Climatique et Effet de Serre, Isle-sur-la-Sorgue, janvier 2004.
- Baret F., Garrigues S., Allard D., Faivre R. “Estimation of surface characteristics over heterogeneous landscapes from medium resolution sensors”, EGS-AGU-EUG Joint Assembly, Nice, April 2003.
- Allard D. Froidevaux, R. and Biver P. “Non stationary reservoir heterogeneity characterisation by simulation of Boolean models” IAMG 2003 Portsmouth, September 2003.
- Garrigues, S., Allard, D. and Baret, F. “Spatial Heterogeneity Characterization fro Scaling Non Linear Processes”, in Proceedings of Second SPECTRA Workshop, Noordwijk, October 2003.
- Allard D. “Clustering Geostatistical Data”, Working Group on Model-based Clustering and Bayesian Model Selection, Seattle, July 2002.
- Allard D., Gabriel E. and Bacro J.N. “Detecting Zones of Abrupt Change in Gaussian Random Fields : An Application to Precision Agriculture”, Working Group on Model-based Clustering and Bayesian Model Selection, Seattle, July 2002.
- Allard D., Gabriel E. and Bacro J.N. “Détection de ruptures dans un champ Gaussien : application à l’agriculture de précision”, Journées de Statistiques de la SFdS, Brussels, May 2002.
- Garrigues S., Weiss M., Allard D. and Baret F. “Influence of spatial heterogeneity and Scaling on Leaf Area Index Estimates from Remote Sensing Data” in Proceedings of First Symposium of Recent Advances in Quantitative Remote Sensing, Valencia, September 2002
- Weiss, M., de Beaufort, L. Baret, F., Allard, D. Bruguier, N. and Marloie, O. “Mapping LAI measurements at different scales for the validation of large swath satellite sensors. First results for the Valeri project”, Workshop CNES, Aussois January 2001.
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