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### 1. Peer-reviewed articles

*Published since 2005*

A. Menafoglio, P. Secchi (2017), Statistical analysis of complex and spatially dependent data: A review of Object Oriented Spatial Statistics. *European Journal of Operational Research*, 258(2), 401-410.

A. Menafoglio, P. Secchi, A. Guadagnini (2016), Stochastic simulation of soil particle-size curves in heterogeneous aquifer systems through a Bayes space approach. *Water Resources Research*, 52(8), 5708-5726.

M. Grasso, A. Menafoglio, B. M. Colosimo, P. Secchi (2016), Using curve-registration information for profile monitoring. *Journal of Quality Technology*, 48(2), 99-127.

M.S. Bernardi, M. Pelucchi, A. Stagni, L.M. Sangalli, A. Cuoci, A. Frassoldati, P. Secchi, T. Faravelli (2016), Curve matching, a generalized framework for models/experiments comparison: An application to *n*-heptane combustion kinetic mechanisms. *Combustion and Flame*, 168, 186-203.

A. Menafoglio, P. Secchi, A. Guadagnini (2016), A class-kriging predictor for functional compositions with application to particle-size curves in heterogeneous aquifers. *Mathematical Geosciences*, 48(4), 463-485.

P. Secchi, S. Vantini, P. Zanini (2016), Hierarchical independent component analysis: A multi-resolution non-orthogonal data-driven basis. *Computational Statistics and Data Analysis*, 95, 133-149.

D. Pigoli, A. Menafoglio, P. Secchi (2016). Kriging prediction for manifold valued random fields. *Journal of Multivariate Analysis*, 145, 117-131.

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- M. Bernardi, L. M. Sangalli, P. Secchi, S. Vantini (2014). Analysis of proteomics data: Block k-mean alignment, *Electronic Journal of Statistics*, 8(2), 1714-1723.
- M. Bernardi, L. M. Sangalli, P. Secchi, S. Vantini (2014). Analysis of juggling data: An application of k-mean alignment, *Electronic Journal of Statistics*, 8(2), 1817-1824.
- L. M. Sangalli, P. Secchi, S. Vantini (2014). Rejoinder: Analysis of AneuRisk65 data, *Electronic Journal of Statistics*, 8(2), 1937-1939.
- L. M. Sangalli, P. Secchi, S. Vantini (2014). Analysis of AneuRisk65 data: k-mean alignment, *Electronic Journal of Statistics*, 8(2), 1891-1904.
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- A. Menafoglio, A. Guadagnini, P. Secchi (2014). A kriging approach based on Aitchison geometry for the characterization of particle-size curves in heterogeneous aquifers, *Stochastic Environmental Research and Risk Assessment*, 28(7), 1835-1851.
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- A. Menafoglio, P. Secchi, M. Dalla Rosa (2013). A Universal Kriging predictor for spatially dependent functional data of a Hilbert Space. *Electronic Journal of Statistics*, 7, 2209- 2240.
- A. Menafoglio, P. Secchi, M. Dalla Rosa (2013). Supplementary material for: A Universal Kriging predictor for spatially dependent functional data of a Hilbert Space. *Electronic Journal of Statistics*, 0, 1-11.
- P. Secchi, A. Stamm, S.Vantini (2013). Inference for the mean of large p small n data: a high dimensional generalization of Hotelling's theorem. *Electronic Journal of Statistics*, vol. 7, p. 2005-2031.
- P. Secchi, S. Vantini, V. Vitelli (2012). Bagging Voronoi classifiers for clustering spatial functional data. *International Journal of Applied Earth Observation and Geoinformation*, vol. 22, p. 53-64.

- T. Passerini, L. M. Sangalli, S. Vantini, M. Piccinelli, S. Bacigaluppi, L. Antiga, E. Boccardi, P. Secchi, A. Veneziani (2012). An Integrated Statistical Investigation of Internal Carotid Arteries of Patients Affected by Cerebral Aneurysms. *Cardiovascular Engineering and Technology*, vol. 3, p. 26-40.
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- N. Accoto, T. Ryden, P. Secchi (2010). Bayesian Hidden Markov models for performance-based regulation of continuity of electricity of supply. *IEEE Transactions On Power Delivery*, vol. 25, p. 1236-1249.
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- G. Aletti, C. May, P. Secchi (2009). A central limit theorem, and related results, for a two-color randomly reinforced urn. *Advances in Applied Probability*, vol. 41, p. 829-844.
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Cases Treated by CO2 Laser Therapy. *Analytical and Quantitative Cytology and Histology*, vol. 31, p. 153-160.

P. Secchi, E. Zio, Di Maio F (2008). Quantifying uncertainties in the estimation of safety parameters by using bootstrapped artificial neural networks. *Annals of Nuclear Energy*, vol. 35, p. 2338-2350.

A. Paganoni, P. Secchi (2007). A numerical study for comparing two response-adaptive designs for continuous treatment effects. *Statistical Methods & Applications*, vol. 16, p. 321-346.

S. Seresini, M. Origoni, F. Lillo, L. Caputo, A. Paganoni, S. Vantini, R. Longhi, G. Taccagni, A. Ferrari, C. Doglioni, P. Secchi, M. Protti (2007). IFN-gamma Produced by Human Papilloma Virus-18 E6 Specific CD4+ T Cells Predicts the Clinical Outcome after Surgery in Patients with High-Grade Cervical Lesions. *Journal of Immunology*, vol. 179, p. 7176-7183.

G. Aletti, C. May, P. Secchi (2007). On the distribution of the limit proportion for a two-color randomly reinforced urn with equal reinforcement distribution. *Advances in Applied Probability*, vol. 39, p. 690-707.

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E. Fumagalli, L. Lo Schiavo, S. Salvati, P. Secchi (2006). Statistical identification of major event days: an application to continuity of supply regulation in Italy. *IEEE Transactions on Power Delivery*, vol. 21, p. 761-767.

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P. Muliere, P. Secchi, S. Walker (2005). Partially exchangeable processes indexed by the vertices of a k-tree constructed via reinforcement. *Stochastic Processes and their Applications*, vol. 115, p. 661-677.

## 2. Peer-reviewed conference presentations

*Published since 2005*

Laura Azzimonti, Laura M. Sangalli, Piercesare Secchi (2014), Modeling prior knowledge on complex phenomena behaviors via partial differential equations, Proceedings of the 47th Scientific Meeting of the Italian Statistical Society.

P. Secchi, S. Vantini, P. Zanini (2014). The Virtuous Cycle of Big Data and Big Cities: a Case Study from Milan. (pp. 1- 3). In: XLVII Scientific Meeting of the Italian Statistical Society. June 11-13, 2014, Cagliari, Italy

P. Secchi, S. Vantini, P. Zanini (2014). EEG signals decomposition: a multi-resolution analysis. (pp. 1- 6). In: XLVII Scientific Meeting of the Italian Statistical Society. June 11-13, 2014, Cagliari, Italy

A. Menafoglio; A. Guadagnini; P. Secchi (2014). Geostatistical analysis of Functional Compositions: characterizing random particle-size distributions through the Aitchison geometry. Janardhana Raju, New Delhi: (pp. 38- 40). In: 16th Annual Conference of the International Association for Mathematical Geosciences. 17-20 oct, 2014, New Delhi

A. Menafoglio; A. Guadagnini; P. Secchi (2014). Kriging prediction for functional compositional data and application to particle-size curves. (pp. 1- 6). In: SIS 2014. 11-13 giugno 2014, Cagliari

A. Menafoglio; P. Secchi (2014). Kriging prediction for spatial random fields valued in a Hilbert space. (pp. 191- 196). In: IWFOSS 2014. 21-23 giugno 2014, Stresa.

M. A. Cremona, P. G. Pelicci, L. Riva, L. M. Sangalli, P. Secchi, S. Vantini (2014). Cluster analysis on shape indices for ChIP-Seq data. (pp. 1- 6). In: SIS2014, 47th Scientific Meeting of the Italian Statistical Society. Cagliari

M. Grasso, N. Frigerio, A. Menafoglio, P. Secchi, B. Colosimo (2013). Functional data analysis and classification for profile monitoring and fault diagnosis in waterjet machining processes. (pp. 1- 6). In: SCo 2013. 9/09/2013 - 11/09/2013, Milano,

A. Menafoglio, M. Dalla Rosa, P. Secchi (2013). A BLU predictor for spatially dependent functional data of a Hilbert space. (pp. 322- 325). In: CLADAG 2013. 18/9/2013-20/9/2013, Modena.

M.A. Cremona, L. Riva, L. M. Sangalli, P. Secchi, Simone Vantini (2013). Clustering chip-seq data using peak shape. (pp. 1- 6). In: S.Co.2013, Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction. Milano,

L. Azzimonti, L. M. Sangalli, P. Secchi (2013). Spatial regression with pde penalization: an application to blood velocity field estimation. (pp. 1- 5). In: S.Co.2013, Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction. Milano.

P. Secchi, S. Vantini, P. Zanini (2013). Discovering Spatiotemporal Patterns of Urban Life From Mobile Data: an Exploration Through Hierarchical Independent Component Analysis. (pp. 1- 2). In: S.Co 2013 Complex Models and Computational Intensive Methods for Estimation and Prediction. 9/9/2013 - 11/9/2013, Milano.

A. Menafoglio, P. Secchi (2013). Geostatistical analysis of spatially dependent functional data: Universal Kriging in a Hilbert space. (pp. 1- 6). In: SCo 2013 - Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction. 9/9/2013 - 11/9/2013, Milano

P. Secchi, S. Vantini, P. Zanini (2012). Independent Component Analysis of Milan Mobile Network Data. In: Proceedings of the XLVI Scientific Meeting. Sapienza University of Rome, June 20-22, p. 1- 4, Cleup.

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P. Secchi, A. Stamm, S. Vantini (2011). A Generalization of Hotelling's Theorem for Large p Small n Data. In: S.Co. 2011 Complex Models and Computational Intensive Methods for Estimation and Prediction. Padova, p. 1-6.

P. Secchi, S. Vantini, V. Vitelli (2011). A clustering algorithm for spatially dependent functional data. In: 1st Conference on Spatial Statistics 2011, Mapping Global Change. *Procedia Environmental Sciences*, p. 176-181, Elsevier.

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D. Pigoli, P. Secchi (2011). Simulation and modeling of spatially correlated positive definite symmetric matrices. In: Proceedings of the 7th Conference on Statistical Computation and Complex Systems. Padova, 19/09/2011 - 21/09/2011, p. 1-6.

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L. Azzimonti, M. Domanin, L.M. Sangalli, P. Secchi (2011). Surface estimation via spatial spline models with PDE penalization. In: Proceedings of S.Co.2011 Conference. p. 1-6, ISBN: 9788861297531, Padova, 19/09/2011 - 21/09/2011

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F. Ieva, A.M. Paganoni, P. Secchi (2010). Data mining the Lombardia Public Health Database: a pilot case study on hospital discharge data for Acute Myocardial Infarctions. In: Atti della XLV Riunione Scientifica della Società Italiana di Statistica. Padova, 16/06/2010 - 18/06/2010, p. 1-8.

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E. Lettieri E, M. Buffoli, S. Capolongo, R. Casagrandi, M. Crivellini, M. Gatto, C. Masella, A. Matta, A.M. Paganoni, E. Pizzi, A. Portioli, P. Secchi, F. Rizzo, P. Trucco (2010). Health Care Systems and Management. In: BioMed@POLIMI Proc 1st Workshop on the Life Sciences at Politecnico di Milano. Milano, Nov. 2010, p. 431-439

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- L.M. Sangalli, Secchi P., Vantini S., Vitelli V. (2009). Curve clustering for misaligned data: the k-mean alignment algorithm. In: Proceedings of S. Co. 2009 Sixth Conference on Complex data modeling and computationally intensive statistical methods for estimation and prediction. p. 381-386, Maggioli, Milano
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- S. Bacigaluppi, L. Antiga, T. Passerini, M. Piccinelli, Vantini S, L. Sangalli, A. Remuzzi, P. Secchi, M. Collice, E. Boccardi, A. Veneziani (2008). Geometric analysis of the Internal Carotid Artery (ICA) in relation to aneurysms. In: 59th Annual Meeting of the German Society of Neurosurgery (DGNC) - 3rd Joint Meeting with the Italia. Würzburg, Germany, 1/6/2008 - 4/6/2008, p. 08dgn328

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Baselli G, Bianchi A.M., M. Butti, M. Caffini, S. Cerutti, A. Merzagora, B. Onaral, P. Secchi (2007). Non-invasive neuroimaging: generalized linear models for interpreting functional near infrared spectroscopy signals. In: 3rd International IEEE/EMBS Conference on Neural Engineering. Kohala Coast, Hawaii, p. 461-464.

Paganoni A, May C, Secchi P (2007). Response-adaptive designs targeting the best treatment for clinical trials with continuous responses. In: S.Co.2007 Complex Models and Computational Intensive Methods for Estimation and Prediction. Venezia, 6 - 8 Settembre 2007, p. 326-331, Cleup, Padova

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S. Salvati, E. Fumagalli, L. Lo Schiavo, P. Secchi (2006). Analysis of the methodology adopted by the Italian regulatory authority for identifying major event days. In: Probabilistic Methods Applied to Power Systems, PMAFS. p. 1-6, 11-15 June 2006, Stockholm, Sweden

P. Muliere, A.M. Paganoni, Secchi P (2006). Randomly reinforced urns for clinical trials with continuous responses. In: SIS - Proceedings of the XLIII Scientific Meeting, Invited Session 9. Torino, June 2006, p. 403-414

### **3. Review articles, book chapters, books**

*Published since 2005*

F. Manfredini, P. Pucci, P. Secchi, P. Tagliolato, S. Vantini, V. Vitelli (2015). Treelet decomposition of mobile phone data for deriving city usage and mobility pattern in the Milan urban region. In: A.M. Paganoni, P. Secchi eds. *Advances in Complex Data Modeling and Computational Methods in Statistics*, p. 133-147, Springer

M. Arena, G. Azzone, A. Conte, P. Secchi, S. Vantini (2015). Measuring downside reputational risk in Oil&Gas Industry. In: A.M. Paganoni, P. Secchi eds. *Advances in Complex Data Modeling and Computational Methods in Statistics*, p. 37-51, Springer

A.M. Paganoni, P. Secchi (editors) (2015). *Advances in Complex Data Modeling and Computational Methods in Statistics*, Springer

F. Ieva, A.M. Paganoni, P. Secchi, (2013). Mining Administrative Health Databases for Epidemiological Purposes: A Case Study on Acute Myocardial Infarctions Diagnoses. In: Fortunato Pesarin and Nicola Torelli eds., *Advances in Theoretical and Applied Statistics*, p. 415- 424, Springer.



L. M. Sangalli, P. Secchi, S. Vantini, V. Vitelli (2012). Joint Clustering and Alignment of Functional Data: an Application to Vascular Geometries. In: Di Ciaccio, A.; Coli, M.; Angulo Ibanez, J.M.. *Advanced Statistical Methods for the Analysis of Large Data-Sets* *Advanced Statistical Methods for the Analysis of Large Data-Sets*. p. 33-43, Springer.

P. Barbieri, N. Grieco, Ieva F, A.M. Paganoni, P. Secchi (2010). Exploitation, integration and statistical analysis of Public Health Database and STEMI archive in Lombardia Region. In: Pietro Mantovan, Piercesare Secchi. *Complex data modeling and computationally intensive statistical methods*. p. 41-56, Springer.

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Secchi P, W. Sudderth (2005). A simple two-person stochastic game with money. In: Andrzej S. Nowak, Krzysztof Szajowski. *Advances in dynamic games*. vol. 7, p. 39-66. Birkhauser, Basel.

#### **4. Open access computer programs**

Alice Parodi, Mirco Patriarca, Laura Sangalli, Piercesare Secchi, Simone Vantini, Valeria Vitelli (2014), *fdakma: Clustering and alignment of a given set of curves*. R package version 1.1.1, <http://CRAN.R-project.org/package=fdakma>.

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