

Full list of publications

1. Articles on Journals listed on Thomson ISI Journal Citation Reports

[69] Using web-data to estimate spatial regression models, (with V. Nardelli), *International Regional Science Review*, 2023 **Class A** (IF =2.858).

[68] A spatial sampling design to improve the efficiency of the estimation of the critical parameters of the SARS-CoV-2 epidemic (with Alleva, G., Falorsi, P., Nardelli, V. and Zuliani, A.). *Statistical methods and Applications* (IF = 0.92), 2023, **Class A**.

[67] Effects of confidentiality-preserving geo-masking on the estimation of semivariogram and of the kriging variance, (with Vincenzo Nardelli and Chiara Ghiringhelli), *Geographical Analysis*, (IF 4.268). 2023, **Class A**

[66] Estimating spatial regression models observed on sample individual data points: a Gibbs sample solution (with Yasumasa Matsuda and Junyue Wu) *Spatial Statistics*, 47, (IF = 1.656) 2022. <https://doi.org/10.1016/j.spasta.2021.100568>**Class A**

[65] Recursive estimation of the spatial error model (with Chiara Ghiringhelli, Gianfranco Piras and Antonietta Mira) *Geographical Analysis*, (IF = 4.268) 2022 **Class A**

[64] Locational error in the estimation of regional discrete choice models using distance as a regressor (with P. Berta and C. Dolan), *Annals of Regional Science*, (IF = 2.646). 2022.

[63] Modelling Nonstationary Spatial Lag Models with Hidden Markov Random Fields (with Chiara Ghiringhelli, Francesco Bartolucci and Antonietta Mira) *Spatial Statistics*, 2021, (IF = 1.656) **Class A**

[62] A sample approach to the estimation of the critical parameters of the SARS-CoV2 epidemics: an operational design (with G. Alleva, P. Falorsi ,V. Nardelli and A. Zuliani), *Journal of Official Statistics*, 2021 (IF=0.837) **Class A**.

[61] Advances in Spatial Economic Data Analysis: Methods and Applications (with Davide Piacentino and Giuseppe Espa), *Spatial Economic Analysis*, 2021, IF = 1.628. **class A**.

[60] Reduced-bias estimation of spatial econometric models with incompletely geocoded data (with Flavio Santi, Maria Michela Dickson, Giuseppe Espa and Diego Giuliani) *Computational Statistics*, 2021 IF = 0.744, **class A**.

[59] Observed and estimated prevalence of Covid-19 in Italy: Is it possible to estimate the total cases from medical swabs data? (with Francesca Bassi and Piero Demetrio Falorsi), *Science of the total environment*, Volume 764, 10 April 2021, IF = 6.551, <https://doi.org/10.1016/j.scitotenv.2020.142799>

- [58] Impact measures in spatial autoregressive models (with A. Bera, O. Dogan and S. Taspinar) *International Regional Science Review*, 43, 1-2, 2020, 40-75, IF = 2.160 <https://doi.org/10.1177/0160017619826264>, **class A**.
- [57] Spatial discrete choice models: A review focused on specification, estimation and health economics applications (with A. G. Billé), *Journal of Economic Surveys*, 33, 5, 1531-1554, 2019, IF = 3.126. <https://doi.org/10.1111/joes.12333>, **class A**.
- [56] Evaluation health facilities access using using Bayesian spatial models and location analysis methods (with, A. Auricchio, R. Krause, A. Mira, Moccetti, G., Reinhold, J., and Thierney, N.), *PlosOne*, 2019, IF = 2.740, First published August 7, 2019, <https://doi.org/10.1371/journal.pone.0218310>
- [55] Estimation of spatial econometric linear models with large datasets: How big can spatial Big Data be? (with C. Ghiringhelli and A. Mira), *Regional science and Urban Economics*, 76, 67-73, 2019, IF = 1.667, **class A**
- [54] Modelling Inter-country Spatial Financial Interaction with Graphical Lasso: An application to Sovereign co-risk Evaluation (with R. Bramante, S. Facchinetti and D. Zappa) *Regional Science and Urban Economics*, 70, 72-79, <https://doi.org/10.1016/j.regsciurbeco.2018.02.006>, 2018, IF = 1.667, **Class A**.
- [53] Testing inequality of opportunity in Italy within the ANOVA framework (with M. L. Pace), *Empirical Economics*, 55, 1, 297-322, 2018, IF = 1.308
- [52] A frequency domain test for isotropy in spatial data models, (with F. Santi, M. Bee and G. Espa) *Spatial Statistics*, 21, A, 262-278, 2018, IF = 1.656. **Class A**
- [51] Fitting spatial regressions to large datasets using unilateral approximations (with M. Bee, G. Espa and F. Santi), *Communications in Statistics, Theory and Methods*, 47, 1, 222238, <https://doi.org/10.1080/03610926.2017.1301476>, 2018, IF 0.612.
- [50] Effects of missing data and locational errors on spatial concentration measures based on Ripley's K-function, (with G. Espa, D. Giuliani and M. Dickson), *Spatial Economic Analysis*, 12, 2-3, 326-346, 2017 <http://dx.doi.org/10.1080/17421772.2017.1297479>, IF = 1.628. **class A**.
- [49] Spatial Analysis of Start-up Health and Pharmaceutical Firm Survival (with G. Espa, D. Giuliani and R. Micciolo), *Journal of Applied Statistics*, <http://dx.doi.org/10.1080/02664763.2016.1214249>, 44, 9, 2017, IF = 1.031
- [48] Spatial Econometrics: a broad view, *Foundations and trends in Econometrics*, 8, 3-4, 2016. IF :1.5.
- [47] Dirty Spatial Econometrics, (with G. Espa and D. Giuliani) *The Annals of Regional Science*, January, 56, 1, 177-189, 2016, IF = 1.750, 19 citations
- [46] A micro spatial analysis of firm demography: the case of food stores in the area of Trento (Italy) (with R. Cella, G. Espa and D. Giuliani), *Empirical Economics*, 48, 3, 2015, 923-937. IF = 1.308.

- [45] Spatio-temporal Clustering of Pharmaceutical and Medical Device Manufacturing Industry: A Geographical Micro-level Analysis. (with G. Espa, D. Giuliani and M. Dickson), *Regional Science and Urban Economics*, 49, 298-304, 2014. IF = 1.667, **Class A**.
- [44] Weighting Ripley's K-function to account for the firm dimension in the analysis of spatial concentration, (with G. Espa and D. Giuliani), *International Regional Science Review*, 3, 247-268, 2014. IF = 2.160. **Class A**
- [43] Advances in Cross-Sectional and Panel Data Spatial Econometric Modeling, (with Christine Thomas), *Geographical Analysis*, 46, 2, 101-103, 2014, IF = 1.690. **Class A**
- [42] Pairwise likelihood inference for spatial regressions estimated on very large datasets, *Spatial Statistics*, 7, 21-39, 2014. IF = 1.656. **Class A**
- [41] A Gaussian Markov random field approach to convergence analysis (with Luigi Ippoliti and Luca Romagnoli), *Spatial Statistics*, 6, 78-90, 2013. IF = 1.656. **Class A**
- [40] Advances in the Statistical Modeling of Spatial Interaction Data (with Roberto Patuelli) *Journal of Geographical Systems*, 15, 3, 229-231, 2013. IF = 2.417.
- [39] Effects of scale in spatial interaction models (with Francesca Petrarca) *Journal of Geographical Systems*, 15, 3, 249-264, 2013. IF = 2.417
- [38] Testing isotropy in spatial econometric models, (with G. Espa and M. Bee) *Spatial Economic Analysis*, 8, 3, 228-240, 2013. IF = 1.628, **Class A**.
- [37] Conditional vs. unconditional industrial agglomeration: disentangling spatial dependence and spatial heterogeneity in the analysis of ICT firms distribution in Milan (Italy) (with G. Espa and D. Giuliani), *Journal of Geographical Systems*, 15, 31-50, 2013. IF = 2.417, 21 citations.
- [36] Frontiers in spatial econometrics modelling (with Enrique Lopez Bazo and Francesco Moscone), *Economic Modelling*, 29, 1, 1-2. 2012. IF = 1.930 **Class A**
- [35] Clusters of firms on an inhomogeneous space: the case of high-tech industries in Milan in 2001 (with G. Espa, D. Giuliani and A. Mazzitelli), *Economic Modelling*, 29, 1, 3-11, 2012. IF 1.930 , 42 citations. **Class A**
- [34] A lustrum of SEA: Recent trends following the creation of the Spatial Econometrics Association (2007-2011), *Spatial Economic Analysis*, 6, 4, 377-395, 2011. IF = 1.628, **Class A**. 41 citations.
- [33] Concentration of manufacturing and service sectors in Italy: Accounting for spatial dependence and firm size distribution (with Laura De Dominicis and Henri De Groot) *Regional Studies*, 47, 3, 405-418, 2011. IF = 3.312, **Class A**. 25 citations.

- [32] Aggregation of regional economic time series with different spatial correlation structures (with G. Espa and M. Bee), *Geographical Analysis*, 43, 78-103. 2011, IF 1.690. **Class A**
- [31] Advances in spatial econometrics (with Harry Kelejian), *Regional Science and Urban Economics*, 40, 5, 253-254, 2010, IF 1.667, **Class A**.
- [30] Detecting the existence of space-time clusters of firms (with Giuseppe Espa, Diego Giuliani and Andrea Mazzitelli), *Regional Science and Urban Economics*, 40, 5, 311-323, 2010, IF 1.667, **Class A**. 47 citations.
- [29] Detecting negative spatial autocorrelation in georeferenced random variables (with Dan Griffith), *International Journal of Geographical Information Sciences*, 24, 3, 417-437, 2010, IF 3.733. 64 citations
- [28] Growth and convergence in a multi-regional model with space-time dynamics (with Elhorst JP and Piras G), *Geographical Analysis*, 42, 3, 338–355, 2010, IF 1.690, **Class A** 105 citations.
- [27] A new class of spatial Concentration measures (with G. Piras) *Computational Statistics and Data Analysis*, 53, 4471-4481, 2009, IF 1.186. 31 citations. **Class A**
- [26] Institutions and geography: empirical test of spatial growth models in European regions (with M. Battisti and G. Di Vaio), *Economic Modelling*, 27, 12-21, 2009, IF 1.930, 119 citations. **Class A**
- [25] Spatial dependence in the tails of air pollutant distributions: alternatives to the spatial correlogram (with Copetti, M. and Lafratta, G.), *Environmetrics*, 20, 3, 221 – 345, May 2009. IF 1,039. **Class A**
- [24] New spatial econometric techniques and applications in regional science (with Bernard Fingleton), *Papers in Regional Sciences*, 87, 3, 311-317, 2008. IF 2.220, **Class A**.
- [23]. Does evidence on regional convergence depend on the estimation strategy ? Results from a sample of NUTS-2 European regions, 1977-2000. (with Le Gallo, J. and Piras, G), *Spatial Economic Analysis*, 3, 2, 209-224, June, 2008. IF 1.628, **Class A**. 59 citations.
- [22] A class of spatial econometric methods in the empirical analysis of clusters of firms in space, (with Espa, G. e Quah, D.), *Empirical Economics*, 34, 1, 81-103, 2008. IF 1.308, 104 citations.
- [21] Introduction to the special issue on spatial econometrics, *Empirical Economics*, 2008 34:1–4 (with B. Baltagi) IF 1.308
- [20] Nonlinear Regional Economic Dynamics: Continuous-Time Specification, Estimation and Stability Analysis (with Piras G. and Donaghy K.), *Journal of Geographical Systems*, 9, 4, 311-344, 2007. IF 2.417.

- [19]. Spatial Sampling Plans to Monitor the 3-D Spatial Distribution of Extremes in Soil Pollution Surveys (with Lafratta G., Simeoni C), *Computational Statistics and Data Analysis*, 51 ,8, 4069-4082, 2007 IF 1.186. **Class A**
- [18] Testing the Stochastic Convergence of Italian Regions using panel data, (with M. Costantini) *Applied Economics Letters*, 2006, 13, 775–783. IF 0.752
- [17] “Exploring non linear dependence in the tails of bivariate marginals of a random field” (with G. Lafratta) *Geographical analysis*, 37, (4), 423-437. 2005 IF: 1.690. **Class A**
- [16] Economic convergence or divergence? Modeling the interregional dynamics of EU regions, 1985-1999, (with J. H. P. Paelinck) *Journal of Geographical Systems*, 5, 291314, 2004. IF 2.417 citations
- [15]. Spatial econometrics modelling of regional convergence in continuous time, (with J. H. P. Paelinck), *International Regional Science Review*, 26, 3, 342-362, 2003. IF: 2.160, **Class A**. 65 citations.
- [14] “Error propagation computing vegetation indices based on Landsat imagery” (with R. Haining and D. Griffith, *Environmental and Ecological Statistics*,. Vol. 10, 2, 375396, 2003. IF 0,981, **Class A**. 29 citations.
- [13] “Anisotropic spatial sampling designs for urban pollution” (with G. Lafratta) *Journal of the Royal Statistical Society series c – Applied Statistics*, 51, 2, 2002, 223234, IF: 1.590, **Class A**. 30 citations.
- [12] “The role of spatial effects in the empirical analysis of regional concentration” *International Journal of Geographical Systems*, 3, 3, 271-281, 2001. IF 2.417, 221 citations.
- [11] “Modelling the geography of economic activities on a continuous space” *Papers in Regional Sciences*, 80, 411-424, 2001; IF: 2.220, 148 citations. **Class A**
- [10] "Error propagation in raster GIS: adding and ratioing operations " (con Haining R. P. e Griffith D. A.), *Cartography & Geographical Information Science*, Vol. 26, pp. 297-315, 1999. IF =2.429.
- [9] “Contextual classification in image analysis: an assessment of accuracy of ICM” (with R. Benedetti and G. Espa), *Computational Statistics Data Analysis*, 30, 443-455, 1999. IF: 1.186, 26 citations. **Class A**
- [8] “Error propagation modeling in raster GIS: overlay operations” (with R. Haining and D. Griffith) *International Journal of Geographical Information Sciences*, Vol. 12, n. 2, 1998. IF: 3.733. 151 citations.

- [7] "Evaluating and updating the sample design: the case of the concentration of SO₂ in Padua" (with Lafratta G.) *Journal of Agricultural, Biological and Environmental Statistics*, 2, 4, 1997, 451-466, IF 1,650. 24 citations.
- [6]. "Effects of MAUP on image classification" (with R. Benedetti e G. Espa) *Journal of Geographical Systems*, 3, 1996, 123-141, IF 2.417, 76 citations.
- [5] "Heterogeneity of attribute sampling error in spatial data sets" (with D. Griffith e R. Haining), *Geographical Analysis*, vol.26, 4, October 1994, 300-320. IF: 1.690. 28 citations. **Class A**
- [4] "The use of GIS in spatial surveys", *International Statistical Review*, 61, 2, 1993, 339-359. IF: 2.740, 74 citations. **Class A**
- [3] "Error propagation through map operations" (with R. P. Haining), *Technometrics*, 35, 3, August, 1993, 293-305. IF: 2.091, 63 citations. **Class A**
- [2] "Integrating GIS and spatial data analysis: problems and possibilities", (with Goodchild, Haining, Wise and 11 more authors), *International Journal of Geographical Information Sciences*, 6, 5, 407-423, 1993. IF 3.733
- [1] "On second order non-stationarity in two-dimensional lattice processes", *Computational Statistics and Data Analysis*, 9, 147-160, North Holland, 1990. IF: 1.186 **Class A**

2. Books with international publishers

- [8] *Spatial microeconometrics*, (with Espa, G. and Giuliani, D.), Routledge ISBN 9781138833753 (expected March 26th, 2021)
- [7] *Statistics, new empiricism and society in the era of Big Data*, Springerbrief in statistics, Springer Verlag (expected 2021)
- [6] *Income Inequality, Redistribution and Economic Growth : Statistical Measures and Empirical Evidences*, Springerbrief in economics, Springer-Verlag (expected 2021)
- [5] *Spatial Econometric Interaction Modelling* (with R. Patuelli eds.) Springer-Verlag, Switzerland, ISBN 978-3-319-30196-9, 2016
- [4] *A primer for Spatial Econometrics: with applications in R*, texts in Econometrics, Palgrave Macmillan, ISBN 978-1-403-90172-9, 2014. 153 citations.
- [3] *Spatial Econometrics: Models and Applications*, (with B. Baltagi, eds.), SpringerVerlag, Heidelberg, ISBN 978-3-7908-2070-6, 2009. 51 citations.
- [2] *Spatial Econometrics: Statistical foundations and applications to regional convergence*, Springer-Verlag, Berlin, ISBN 10-3-540- 32304-X, March, 2006. 8500 download (<https://link.springer.com/book/10.1007%2F3-540-32305-8>). 587 citations.

[1] *Spatial data configuration in statistical analysis of regional economics and related problems*, Advanced Statistical Theory and Applied Econometrics, Kluwer Academic Publisher: Dordrecht, The Netherlands, 1989, ISBN 0792302842, pp. xiv+ 256. 482 citations.

[3] **Articles on other peer-reviewed journals without impact factor**

[24] From mobile crowdsourcing to crowd-trusted food price in Nigeria: statistical preprocessing and post-sampling (with Gloria Solano-Hermosilla, Vincenzo Nardelli, Fabio Micale, Giampiero Genovese, Ilaria Lucrezia Amerise and Julius Adewopo, *Nature Scientific Data*, 10-446, 2023, <https://doi.org/10.1038/s41597-023-02211-1>

[23] Stochastic epidemic modeling with application to the Sars-Cov-2 pandemic in Italy, *Rivista Internazionale di Scienze Sociali*, 1, 2021

[22] Rate of clinically significant prostate cancer on repeat saturation biopsy after a diagnosis of atypical small acinar proliferation, with Angelo Totaro, Luca Di Gianfrancesco, Francesco Pinto, Marco Racioppi, Giuseppe Palermo, Marco Campetella, Agostino Antonio Santoro, Giuseppe Arbia, Emilio Sacco, *Urologia Journal*, 12 February 2021, <https://doi.org/10.1177/039156032199359>

[21] Least Quartic Regression Criterion to Evaluate Systematic Risk in the Presence of Co-skewness and Co-kurtosis (with Riccardo Bramante and Silvia Facchinetti), *Risks*. 2020, 8, 3, 95; <https://doi.org/10.3390/risks8030095>

[20] The analysis of commodity flows in San-En-Nanshin region (Japan) with heteroskedastic spatial interaction models (with Ha Thi Thu Trang and Yuzuru Miyata), *Studies in Regional Science*, 2016. (H index=10).

[19] Spatial Econometrics: A rapidly evolving discipline, *Econometrics*, 2016.

[18] Forecasting interest rate using geostatistical techniques (with Michele Di Marcantonio) *Econometrics*, 2015, 3, 4, 733-760; doi:10.3390/econometrics3040733,

[17] Measurement Errors arising when using distances in spatial microeconomic modelling and the individuals' position is geo-masked for confidentiality, (with G. Espa and D. Giuliani) *Econometrics* 2015, 3, 4, 709-718; doi:10.3390/econometrics3040709

[16] Special Issue on Spatial Econometrics: An Editorial Note (with Gianfranco Piras and Ingmar Prucha, *The Review of Regional Studies*, 44, 221–222, 2014. RG journal impact = 0.35.

[15] A spatially explicit approach to the study of socio-demographic inequality in the spatial distribution of trees across Boston neighborhoods, (with Duncan, Kawachi, Kum, Aldstadt, Piras, Matthews, Castro, White and Williams), *Spatial Demography*, 2013, 1, 4.

- [14] Effects of MAUP on spatial econometrics models (with Francesca Petrarca), *Letters in Spatial and Resource Sciences*, 4, 173-185, 2011. Impact Factor REPEC 0.974, 41 citations.
- [13] Convergence in per-capita GDP across EU-NUTS2 regions using panel data models extended to spatial autocorrelation effects", (with G. Piras); *Statistica*, 2007. 43 citations
- [12] Alternative approaches to regional convergence exploiting both spatial and temporal information, *Estudios de Economia Aplicada*, 22(2): 429-448, 2005.
- [11] Spatial Dependence and Non-linearities in Regional Growth Behaviour in Italy, (with R. Basile), *Statistica*, LXV, 145-167, Bologna. 2005
- [10] Spatial correlation estimates based on satellite observations corrected with the prior knowledge on sensor devices' technical characteristics, (with G. Lafratta) *Statistica*, LXIII, 2, 249-263, 2003, Bologna.
- [9] Bivariate Value-at-risk, *Statistica*, 2003, anno LXII, 2, 231-247.
- [8] Two critiques to the statistical measures of spatial concentration and regional convergence, *International Advances in Economic Research*, Volume 6, Number 3, August 2000.
- [7] Statistical modelling of archaeological sites as non-stationary Cox processes and its use in forecasting, (with G. Espa), *Archeologia e Calcolatori*, Roma, 1996.
- [6] Forecasting statistical modelling of archeological site location, (with G. Espa), *Archeologia e Calcolatori*, Roma, 1996.
- [5] The use of GIS in spatial and spatio-temporal surveys, (with M. Coli), *Bullettin of the International Statistical Institute*, Vol. 50, 3, 24, pagg. 1-28, Il Cairo, 1991.
- [4] The dampening effect on high order spatial autocorrelation in irregular lattices, *Metron*, Volume XLVI, 1-4, pagg. 459-488, Roma, 1989. IF : 0.51.
- [3] Sull'analisi di serie spaziali non stazionarie: un metodo basato sul ricampionamento, *Statistica*, 4, pagg. 553-562, 1989.
- [2] Diseguaglianze territoriali, *Rassegna Economica*, 3, Anno LIII, pagg. 569-596, Ufficio Studi, Banco di Napoli, Napoli, Luglio-Settembre, 1989.
- [1] The modifiable areal unit problem and the spatial autocorrelation problem: towards a joint approach, *Metron*, Volume XLIV, 1-4, pagg. 391-407, Dicembre 1986, Roma. (RG Journal impact = 0.63), IF: 0.51. 26 citations.

4. Contributions to refereed books (international publishers)

- [14] Estimating uncertainty in epidemic models: an application to Covid19 pandemic in Italy, *Econ Covid-19*, B. Baltagi, F. Moscone and E. Tosetti Editors, Emerald Publisher

(with C. Ghiringhelli and V. Nardone)

[13] On the spatial determinants of firm growth: a micro-level analysis of the Italian SMEs (with M. M. Dickson, R. Gabriele, D. Giuliani and F. Santi), *Spatial Economics*, S. Colombo editor, Palgrave. Spatial Economics Volume II, 89-120, 2021

[12] *The spatial dimension of health systems*, entry of the *Encyclopedia of big data* (with Moscone, Santos and Tosetti) Laurie A. Schintler and Connie L. McNeely (eds.) Springer Verlag, 2018

[11] *Spatial Econometrics*, entry of the *Encyclopedia of big data*, Laurie A. Schintler and Connie L. McNeely (eds.) Springer Verlag, 2018

[10] Spatial Econometric Interaction Modelling: Where Spatial Econometrics and Spatial Interaction Modelling Meet (with R. Patuelli) in *Spatial Econometric Interaction Modelling* (Arbia, G. and R. Patuelli eds.) Springer-Verlag, Switzerland, 2016, ISBN 978-3-319-301969.

[9] The Future of Spatial Interaction Modelling, in *Spatial Econometric Interaction Modelling* (Arbia, G. and R. Patuelli eds.) Springer-Verlag, Switzerland, 2016, ISBN 978-3-319-301969.

[8] Spatial concentration and dispersion of economic activities: microeconomic versus mesoeconomic approach (with G. Espa and D. Giuliani), in *Handbook of Research Methods and Applications in Economic Geography*, Charlie Karlsson, Martin Andersson and Therese Norman eds., Edward Elgar Publisher, Cheltenham, 135-157, 2015, ISBN 978 0 85793 266 2 (cased).

[7] A class of spatial statistical methods in the empirical analysis of spatial clusters, (with G. Espa, G. e Quah, D.), in *Spatial Econometrics: methods and applications*, Arbia, G. and Baltagi, B. eds., reprint of the paper appeared on *Empirical Economics*, Springer-Verlag, ISBN 978-3-7908-2070-6, Heidelberg, 2009.

[6] "Modelling individual behaviour of firms in the study of spatial concentration" (with Copetti M. and Diggle P.J.), in U. Fratesi L. and Senn (eds.) *Growth in Interconnected Territories: Innovation Dynamics, Local Factors and Agents*, Springer-Verlag, 297328, ISBN: 978-3-540-70923-7, 2008.

[5] "Uncertainty and error propagation in map analyses involving arithmetic and overlay operations: inventory and porspect" (with R. Haining e D. Griffith) in *Spatial accuracy assessment*, Kim Lowell and Annick Jatton (eds.), Ann Arbor Press, Chelsea, Michigan, ISBN 1-57504-119-7, 11-25, 1999.

[4] "Aggregation over time space and individuals in economic modelling: a generating mechanism approach", Capitolo 6 del volume *Continuous time econometrics*, G. Gandolfo ed., Chapman and Hall editori, 1992, ISBN 0-412-45020-8, London.

[3] "Statistical effects of spatial data transformations: a proposed general framework", in *Accuracy of spatial databases*, M. Goodchild e S. Gopal (eds.), Taylor & Francis, 249-259, ISBN 0-85066-847-6, London, 1989.

[2] "On the simulation of two-dimensional stationary stochastic processes: a comparison of different approaches", *Proceedings of the Seventh Symposium in Computational Statistics, Short Communications and posters*, De Antoni, Lauro and Rizzi (eds), PhysicaVerlag editor, 17 - 18, Roma, 1986.

[1] "Problems in the estimation of the spatial autocorrelation function arising from the form of the weights matrix" in *Transformations through space and time*, D.Griffith and R.P. Haining (eds), Martinus Nijhoff Editore, 294-308, Dordrecht, ISBN 9024733626, 1986.

[5] **Other publications**

a) articles

[14] Modelling COVID-19 evolution in Italy with an augmented SIRD model using open data (with V. Nardelli, A. Palladino and L. G. Atzeni), medRxiv preprint doi: <https://doi.org/10.1101/2021.04.14.21255500>, April 2021.

[13] Spatial sampling design to improve the efficiency of the estimation of the critical parameters of the SARS-CoV-2 epidemic (with [Giorgio Alleva](#), [Piero Demetrio Falorsi](#), [Vincenzo Nardelli](#), [Alberto Zuliani](#),] [arXiv:2103.01254](https://arxiv.org/abs/2103.01254), 1 March 2021

[12] Observed and estimated prevalence of Covid-19 in Italy: Is it possible to estimate the total cases from medical swabs data?, (with F. Bassi and P. Falorsi), [arXiv:2004.06068v1](https://arxiv.org/abs/2004.06068v1), 8 May 2020.

[11] A sample approach to the estimation of the critical parameters of the SARS-CoV2 epidemics: an operational design with a focus on the Italian health system (with G. Alleva, P. Falorsi and A. Zuliani), [arXiv:2004.06068v1](https://arxiv.org/abs/2004.06068v1), 8 April 2020.

[10] Post-sampling crowdsourced data to allow reliable statistical inference: the case of food price indices in Nigeria, [arXiv:2003.12542](https://arxiv.org/abs/2003.12542), 27 March 2020.

[9] A note on early epidemiological analysis of coronavirus disease 2019 outbreak using crowdsourced data, ArXiv, [arXiv:2003.06207](https://arxiv.org/abs/2003.06207), 13 March 2020.

[8] Measurement error induced by locational uncertainty when estimating discrete choice models with a distance as a regressor (with [Berta](#), [P. and Dolan](#), C.), [arXiv:1906.11720](https://arxiv.org/abs/1906.11720) April 2019.

[7] L'irresistibile ascesa del Sesto Potere: i Big Data", *Statistica & Societa'*, Societa' Italiana di Statistica. <http://www.rivista.sis-statistica.org/cms/?p=659>, 30, December 2018.

[6] "Big Data: Il sesto potere", *La Rivista Vita e Pensiero*, Milano, 2018,

[5] "Verso un'approccio statistico al geomarketing: alcune linee guida ed un caso di studio" (with G. Espa), *Quaderni di statistica e matematica applicata alle scienze economico sociali*, Volume XVII, n. 1, Marzo 1995, pagg. 55-81., Marzo, 1995.

[4] "Introduction: a bird's eye view of spatial data and applications", *Quaderni di statistica e matematica applicata alle scienze economico-sociali*, Volume XVI, n. 1-2, Novembre, 1994. pagg. 1-16

[3] "Selection techniques in sampling spatial units", *Quaderni di statistica e matematica applicata alle scienze economico-sociali*, Volume XVI, n. 1-2, Novembre 1994. pagg. 81-91.

[2] "Metodi di ricampionamento nella analisi di immagini aeree e da satellite", (with R. Benedetti), *Quaderni di Statistica e Econometria*, Vol. XII, pagg. 143-152, Napoli, 1990.

[1] "Sulla verifica empirica di teorie economiche: serie storiche o serie spaziali", *Rassegna Di Statistiche del Lavoro*, Centro Studi Confindustria, **3**, Anno 40, pagg. 97105, Roma, Settembre, 1989.

b) books on Italian publishers

[6] *Statistica, società e nuovo empirismo nell'era dei Big Data*, Nuova Cultura, Roma, 2018.

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f) Press coverage

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6. Work in progress and other publications

a) papers currently submitted to peer-reviewed journals

[4] Concentrated Partial ML estimation for Dynamic Spatial Panel Data Probit Models with Fixed Effects (with A. G. Billè and S. Leorato) submitted to *Journal of Econometrics* (IF = 3.04) **Class A.**

[3] Bias in the estimation Moran's coefficient when using web-collected data points: theoretical results and empirical evidence, (with Vincenzo Nardelli, Yasumasa Matsuda

and Junyue Wu), submitted to *Journal of Computational and Graphical Statistics*, (IF = 1.884). May 2021 **Class A**.

[2] New accessibility measures based on unconventional big data sources (with V. Nardelli, N. Salvini and I. Valentini) submitted to *Journal of Urban Economics* (IF = 5.456) **Class A**

[1] From mobile crowdsourcing to crowd-trusted food price in Nigeria: statistical preprocessing and post-sampling" (with G. Solano-Hermosilla, V. Nardelli, F. Micale, G. Genovese, I. Amerise, and J. Adewopo (Paper #SDATA-22-01485), Submitted to *Nature Scientific Data* (IF = 8.501) (second round of review).

b) work in progress

[6] Fake News and Covid-19 in Italy: a Google Trend analysis (with Altamura Gerardo; Nurchis Mario Cesare; Salvini Niccolò; Osti Tommaso and Damiani Gianfranco), in preparation for *Health Policy* (IF 3.255)

[5] The impact of socio-economic conditions on individuals' health: development of an index and examination of its association with chronic diseases in Lazio region of Italy (with Valentini Ilaria; Nurchis Mario Cesare; Altamura Gerardo; Cicchetti Americo and Damiani Gianfranco), in preparation for *Health Policy* (IF 3.255)

[4] Estimation and Outlier Detection with Spatial Correlation Coefficients (with D. Griffith and V. Nardelli).

[3] Post-sampling crowdsourced data for reliable statistical inference: the case of food prices in Nigeria (with Gloria Solano-Hermosilla, Fabio Micale, Vincenzo Nardelli and Giampiero Genovese),

[2] A GMM two-step procedure for the estimation of spatial error quantile models (with Elena Semerikova)

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c) Book translations edited

[1] "Statistica", 7th edition, Joseph Levine - Kathryn A. Szabat - David F. Stephan, Pearson-Italia publisher (translation co-edited with Giancarlo Ragozzini and H. J. Reinhold)

d) Professional Reports

[22] "Analisi preliminare dell'impatto di un nuovo modello di dispensazione dei farmaci per le patologie di ambito pneumologico" (con Cicchetti, A., Taranto, C., Pinna, Corona, L. M. e Messina, R.), Federanziani Senior, Italia, Working paper Altems, 2017.

- [21] “Analisi istruttoria per l’individuazione di indicatori di rischio corruzione e di prevenzione e contrasto nelle amministrazioni pubbliche coinvolte nella politica di coesione, (con Carloni, E., Galli, E. Monteduro, e Vannucci, A.)”, ANAC, National Anticorruption Agency, Final Report of the Working for the program on “Azione e Coesione Complementare al PON. Governance e Assistenza Tecnica 2007-2013” Obiettivo Operativo I.2, Progetto “Attività esterne di valutazione del PON GAT 2007/2013”, 2016.
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- [14] Costruzione di un GIS per il monitoraggio dell’efficacia nel territorio degli incentivi alle assunzioni e alla creazione di impresa, Abruzzo-Lavoro, Pescara, 2002
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- [11] Le tavole input-output: Teorie, metodi di costruzione ed esperienze di impiego in ambito regionale, Progetto: “Adeguamento tecnologico e gestionale delle PMI”, Linea 1.1 “Analisi del sistema industriale Abruzzo”, Parco Scientifico e Tecnologico d’Abruzzo, 1999
- [10] Metodi di spazializzazione dei dati per la stima delle rese agricole nelle celle AGROMET, Telespazio, Roma , 1998

[9] Sviluppo di un modello statistico per la previsione delle precipitazioni su base locale Progetto di ricerca nell'ambito del prodotto "Previsioni metereologiche a Breve-Medio termine" del Progetto T.E.R.R.A. del Sud. Telespazio, Roma, March 1994

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[7] "Note al margine del rapporto metodologico sulle procedure di calcolo per la stima della domanda merci", Finsiel-Consortio SESIT, Roma, 1995

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e) conference proceedings, working papers and other publications not described above: about 160