

DEPARTAMENTO DE
ESTADISTICA

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Actividades de investigación

Tesis Doctorales

- Asymmetric stochastic volatility models
Autores: MAO, X.
Director/Codirectores: LOPES MOREIRA, M.H.; RUIZ, E.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE GETAFE
Año: 2015
- (Batch) Markovian arrival processes: the identifiability issue and other applied aspects
Autores: RODRIGUEZ, J.V.
Director/Codirectores: LILLO, R.E.; RAMÍREZ, J.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Contributions to bayesian non-parametrics
Autores: ZHAO, Y.
Director/Codirectores: WIPER, M. P. ; AUSIN, M. C.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE GETAFE
Año: 2015
- Distancias para datos funcionales= The Mahalanobis distance for functional data with applications in statistical problems
Autores: JOSEPH, E.
Director/Codirectores: LILLO, R.E.; GALEANO, P.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Essays on forecasting with partial least squares methods
Autores: FUENTES, J.
Director/Codirectores: RUIZ, E.; PONCELA, M. D. P. ; RODRIGUEZ, J.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE GETAFE
Año: 2015

- FDA, RKHSS and information geometry methods for the analysis of time series and probability distributions
Autores: MARTOS, G.A.
Director/Codirectores: MUÑOZ, A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Flexible bayesian nonparametric priors an bayesian computational methods
Autores: ZHU, W.
Director/Codirectores: MARIN, J.M.; LEISEN, F.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE GETAFE
Año: 2015
- Functional linear models
Autores: MINGOTTI, N.
Director/Codirectores: LILLO, R.E.; ROMO, J.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Tutela multinivel de los derechos: obstáculos procesales/ Bayesian Non-Parametrics for Time-Varying Volatility Models
Autores: VIRBICKAITE, A.
Director/Codirectores: GALEANO, P. ; AUSIN, M. C.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE GETAFE
Año: 2015

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- ARTIEDA, P.; David Delgado Gomez; RUIZ, D.; GARCÍA, J.M.; BERENGUER, N.; OQUENDO, M.A.; BLASCO, H.
Short Personality and Life Event scale for detection of suicide attempters, *Revista de psiquiatria y salud mental*, Vol. 8, Núm. 4, 2015, pp. 199-206, ESPAÑA.
- EILERS, P.H.C.; MARX, B.D.; DURBAN, M. L.
Twenty years of P-splines, *Statistics and Operations Research Transactions*, Vol. 39, Núm. 2, 2015, pp. 149-189, ESPAÑA.

Publicaciones en revistas científicas internacionales

- AGUILERA, M.D.C.; AGUILERA, A.M.
P-spline estimation of functional classification methods for improving the quality in the food industry, *Communications in statistics. Simulation and computation*, Vol. 44, Núm. 10, 2015, pp. 2513-2534, ESTADOS UNIDOS DE AMERICA.

- ALBARRAN, I.; ALONSO, P.; GRANE, A.
Profile identification via weighted related metric scaling: an application to dependent Spanish children, *Journal of the Royal Statistical Society. Series A, (Statistics in society)*, Vol. 178, Núm. 3, 2015, pp. 593-618, REINO UNIDO.
- ALONSO, A.M.; PEREZ, R.H.; SILVA, E.
Forecasting mortality rates: Mexico 2001-2010, *Communications in Statistics - Case Studies and Data Analysis*, Vol. 1, Núm. 1, 2015, pp. 22-38.
- ARRIBAS, A.; DE LA CRUZ, R.; LEBARBIER, E.; MEZA, C.
Classification of longitudinal data through a semiparametric mixed-effects model based on lasso-type estimators, *Biometrics*, Vol. 71, Núm. 2, 2015, pp. 333-343.
- ARRIBAS, A.; ROMO, J.
Discussion of "Multivariate functional outlier detection", *Statistical Methods and Applications*, Vol. 24, Núm. 2, 2015, pp. 263-267, ALEMANIA.
- BALAKRISHNAN, N.; MARTIN, N.; PARDO, L.
Empirical phi-divergence test statistics for testing simple and composite null hypotheses, *Statistics*, Vol. 49, Núm. 5, 2015, pp. 951-977, HOLANDA - PAISES BAJOS.
- BASU, A.; MANDAL, A.; MARTIN, N.; PARDO, L.
Robust tests for the equality of two normal means based on the density power divergence, *Metrika*, Vol. 78, Núm. 5, 2015, pp. 611-634, ALEMANIA.
- BERTOLINI, F.; CABRAS, S.; CASTELLANOS, M.E.; RACUGNO, W.
Unscaled Bayes factors for multiple hypothesis testing in microarray experiments, *Statistical methods in medical research*, Vol. 24, Núm. 6, 2015, pp. 1030-1043, REINO UNIDO.
- CABRAS, S.; CASTELLANOS, M.E.; PERRA, S.
A new minimal training sample scheme for intrinsic Bayes factors in censored data, *Computational statistics and data analysis*, Vol. 81, 2015, pp. 52-63, HOLANDA - PAISES BAJOS.
- CABRAS, S.; CASTELLANOS, M.E.; RULI, E.
Approximate Bayesian Computation by Modelling Summary Statistics in a Quasi-likelihood Framework, *Bayesian analysis*, Vol. 10, Núm. 2, 2015, pp. 411-439, ESTADOS UNIDOS DE AMERICA.
- CABRAS, S.; RACUGNO, W.; VENTURA, L.
Higher order asymptotic computation of Bayesian significance tests for precise null hypotheses in the presence of nuisance parameters, *Journal of statistical computation and simulation*, Vol. 85, Núm. 15, 2015, pp. 2989-3001, ESTADOS UNIDOS DE AMERICA.
- CUEVAS, ; QUILIS, E.M.; ESPASA, A.
Quarterly Regional GDP Flash Estimates by Means of Benchmarking and Chain Linking, *Journal of official statistics*, Vol. 31, Núm. 4, 2015, pp. 627-647, HOLANDA - PAISES BAJOS.
- D AURIA, B.; KANTA, S.
Pure threshold strategies for a two-node tandem network under partial information, *Operations Research Letters*, Vol. 43, Núm. 5, 2015, pp. 467-470, HOLANDA - PAISES BAJOS.

- DE MIGUEL, A.V.; MARTIN, A.; NOGALES, F. J.
Parameter uncertainty in multiperiod portfolio optimization with transaction costs, *Journal of financial and quantitative analysis*, Vol. 50, Núm. 6, 2015, pp. 1443-1471, ESTADOS UNIDOS DE AMERICA.
- FRESOLI, D.E.; RUIZ, E.; PASCUAL, L.
Bootstrap multi-step forecasts of non-Gaussian VAR models, *International journal of forecasting*, Vol. 31, Núm. 3, 2015, pp. 834-848, HOLANDA - PAISES BAJOS.
- GALEANO, P. ; JOSEPH, E.; LILLO, R.E.
The Mahalanobis Distance for Functional Data With Applications to Classification, *Technometrics*, Vol. 57, Núm. 2, 2015, pp. 281-291, ESTADOS UNIDOS DE AMERICA.
- GONZALEZ, I. M. ; SANCHEZ, I.
Optimal centering and tolerance synthesis for non-independent and non-normal variables, *International journal, advanced manufacturing technology*, Vol. 79, 2015, pp. 1171-1184, REINO UNIDO.
- GOUVEIA, S.; GONZALEZ, M. ; MONTEIRO, A.; ALONSO, A.M.
Wavelets-based clustering of air quality monitoring sites, *Environmental monitoring and assessment*, Vol. 187, Núm. 11, 2015, HOLANDA - PAISES BAJOS.
- GRANE, A.; ROMERA, M. R.
Piercesare Secchi, Simone Vantini and Valeria Vitelli: Analysis of spatio-temporal mobile phone data: a case study in the metropolitan area of Milan, *Statistical Methods and Applications*, Vol. 24, Núm. 2, 2015, pp. 313-314, ALEMANIA.
- HUFFMAN, J.E.; CABRAS, S.; ET AL,
Modulation of Genetic Associations with Serum Urate Levels by Body-Mass-Index in Humans, *PloS one*, Vol. 10, Núm. 3, 2015, ESTADOS UNIDOS DE AMERICA.
- JARA, M.A.; PAOLINI, D.; TENA. J.D
Management efficiency in football: an empirical analysis of two extreme cases, *Managerial and Decision Economics*, Vol. 36, Núm. 5, 2015, pp. 286-298.
- Jorge E. Galán; LOPES MOREIRA, M.H.; WIPER, M. P.
Dynamic effects in inefficiency: evidence from the Colombian banking sector, *European journal of operational research*, Vol. 240, Núm. 2, 2015, pp. 562-571, HOLANDA - PAISES BAJOS.
- KAZEMPOUR, S.J.; CONEJO, A.J.; RUIZ, C.
Strategic bidding for a large consumer, *IEEE Transactions on Power Systems*, Vol. 30, Núm. 2, 2015, pp. 848-856, ESTADOS UNIDOS DE AMERICA.
- KUZNETSOVA, E.; RUIZ, C.; LI, Y.F.; ZIO, E.
Analysis of robust optimization for decentralized microgrid energy management under uncertainty, *International Journal of Electrical Power and Energy Systems*, Vol. 64, 2015, pp. 815-832, REINO UNIDO.

- LEONTI, M.; STAUB, P.O.; CABRAS, S.; CASTELLANOS, M.E.; CASU, L.
From cumulative cultural transmission to evidence-based medicine: evolution of medicinal plant knowledge in Southern Italy, *Frontiers in pharmacology*, Núm. 6, 2015, pp. 207-, SUIZA.
- MARIN, J.M.; RODRIGUEZ, M. T. ; ROMERO, E.
Data cloning estimation of GARCH and COGARCH models, *Journal of statistical computation and simulation*, Vol. 85, Núm. 9, 2015, pp. 1818-1831, ESTADOS UNIDOS DE AMERICA.
- MARIN, J.M.; SUCARRAT, G.
Financial density selection, *European journal of finance*, Vol. 21, Núm. 13-14, 2015, pp. 1195-1213, REINO UNIDO.
- MARINI, E.; BUFFA, R.; CONTRERAS, M.; MAGRIS, M.; HIDALGO, G.; SÁNCHEZ, W.; ORTIZ, V.; URBAEZ, M.; CABRAS, S.; BLASER, M.J.; DOMÍNGUEZ, M.G.
Effect of Influenza-Induced Fever on Human Bioimpedance Values, *PloS one*, Vol. 10, Núm. 4, 2015, ESTADOS UNIDOS DE AMERICA.
- MARTIN, B.; RAMOS, S.B.; LOPES MOREIRA, M.H.
Correlations between oil and stock markets: A wavelet-based approach, *Economic modelling*, Vol. 50, 2015, pp. 212-227, REINO UNIDO.
- MARTIN, N.
Using Cook's distance in polytomous logistic regression, *British journal of mathematical & statistical psychology*, Vol. 68, Núm. 1, 2015, pp. 84-115, REINO UNIDO.
- MARTIN, N.
Diagnostics in a simple correspondence analysis model: An approach based on Cook's distance for log-linear models, *Journal of Multivariate Analysis*, Vol. 136, 2015, pp. 175-189, ESTADOS UNIDOS DE AMERICA.
- MARTIN, N.; MATA, R.; PARDO, L.
Comparing two treatments in terms of the likelihood ratio order, *Journal of statistical computation and simulation*, Vol. 85, Núm. 17, 2015, pp. 3512-3534, ESTADOS UNIDOS DE AMERICA.
- MENENDEZ, B.; PARDO, E.G.; DUARTE, A.; ALONSO-AYUSO, A.; MOLINA, E.
General variable neighborhood search applied to the picking process in a warehouse, *Electronic Notes in Discrete Mathematics*, Vol. 47, 2015, pp. 77-89, HOLANDA - PAISES BAJOS.
- MOLINA, I.; MARHUENDA, Y.
Sae: An R Package for Small Area Estimation, *R journal*, Vol. 7, Núm. 1, 2015, pp. 81-98, ESTADOS UNIDOS DE AMERICA.
- MOLINA, I.; RAO, J.N.K.; DATTA, G.S.
Small area estimation under a Fay-Herriot model with preliminary testing for the presence of random area effects, *Survey methodology*, Vol. 41, Núm. 1, 2015, pp. 1-19, CANADA.

- NÚÑEZ, G.; AUSIN, M. C. ; WIPER, M. P.
Bayesian nonparametric models of circular variables based on dirichlet process mixtures of normal distributions, *Journal of Agricultural Biological and Environmental Statistics*, Vol. 20, Núm. 1, 2015, pp. 47-64, ESTADOS UNIDOS DE AMERICA.
- RODRIGUEZ, J.V.; LILLO, R.E.; RAMIREZ, P.
Failure modeling of an electrical N-component framework by the non-stationary Markovian arrival process, *Reliability Engineering and System Safety*, Vol. 134, 2015, pp. 126-133, REINO UNIDO.
- RODRÍGUEZ, M.X.; LEE, D.-J.; KNEIB, T.; DURBAN, M. L. ; EILERS, P.H.C.
Fast smoothing parameter separation in multidimensional generalized P-splines: the SAP algorithm, *Statistics and Computing*, Vol. 25, Núm. 5, 2015, pp. 941-957, REINO UNIDO.
- RUIZ, C.; CONEJO, A.J.
Robust transmission expansion planning, *European journal of operational research*, Vol. 242, Núm. 2, 2015, pp. 390-401, HOLANDA - PAISES BAJOS.
- RUIZ, D.; David Delgado Gomez; LOPEZ, J.
Restructuring bank networks after mergers and acquisitions: A capacitated delocation model for closing and resizing branches, *Computers and operations research*, Vol. 62, 2015, pp. 316-324, REINO UNIDO.
- TORRADO, N.; LILLO, R.E.
Likelihood ratio comparisons among spacings related to both one or two samples, *Statistics*, Vol. 49, Núm. 4, 2015, pp. 831-841, HOLANDA - PAISES BAJOS.
- Torres, R.; LILLO, R.E.; LANIADO, H.
A directional multivariate value at risk, *Insurance. Mathematics and economics*, Vol. 65, 2015, pp. 111-123, HOLANDA - PAISES BAJOS.
- VIRBICKAITE, A.; AUSIN, M. C. ; GALEANO, P.
Bayesian inference methods for univariate and multivariate GARCH Models: a Survey, *Journal of economic surveys*, Vol. 29, Núm. 1, 2015, pp. 76-96, REINO UNIDO.
- ZHU, W.; LEISEN, F.
A multivariate extension of a vector of two-parameter Poisson-Dirichlet processes, *Journal of nonparametric statistics*, Vol. 27, Núm. 1, 2015, pp. 89-105, ESTADOS UNIDOS DE AMERICA.

Libros

- ALBARRAN, I.; ARIZA, F.; CÓBRECES, V.; DURBAN, M. L. ; RODRIGUEZ-PARDO, J.M.
The Risk of Longevity and its Practical Application to Solvency II: European Harmonization for Management Purposes, 2015.
- MOLINA, I.; RAO, J.N.K.
Small area estimation, *Wiley Series in Survey Methodology*, Hoboken, NJ, REINO UNIDO, 2015.

Colaboraciones en obras colectivas

- AUSIN, M. C.
Markov chain Monte Carlo, introduction, en: [Wiley Stats Ref: Statistics Reference Online](#), JOHN WILEY AND SONS LTD, pp. 1-10, 2015.
- BADAGIAN, A.; KAISER, R. ; PEÑA, D.
Time series segmentation procedures to detect, locate and estimate change-points, en: [Empirical economic and financial research: theory, methods and practice](#), ESPAÑA, pp. 45-59, 2015.
- GOMEZ, A.; RIOS, D.; RUGGERI, F.; WIPER, M. P.
Bayesian inference of Markov processes, en: [Wiley StatsRef: Statistics Reference Online](#), WILEY, 2015.
- PALACIOS, A.P.; MARIN, J.M.; WIPER, M. P.
A subordinated stochastic process model, en: [Bayesian statistics from methods to models and applications](#), SPRINGER, pp. 49-57, 2015.
- RODRIGUEZ-PÀRDO, J.M.; ALBARRAN, I.; ARIZA, F.; COBRECES, V.; DURBAN, M. L.
The risk of longevity and its practical application to solvency II: European harmonization for management purposes, en: [Julio Castelo Matrán, International Insurance Prize, VII](#), Fundacion MAPFRE, ESPAÑA, pp. 1-139, 2015.
- RUIZ, E.; PONCELA, P.
More is not always better: Kalman filtering in dynamic factor models, en: [Unobserved components and time series econometrics](#), Oxford University Press (Ed.), 2015.

Documentos de trabajo

- AGUILERA, M.D.C.; DURBAN, M. L. ; AGUILERA, A.M.
Penalized functional spatial regression, *UC3M Working papers. Statistics and Econometrics 15-12* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- ALMEIDA, D.D.; HOTTA, L.; RUIZ, E.
MGARCH models: tradeoff between feasibility and flexibility, *UC3M Working papers. Statistics and Econometrics 15-16* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- AVAGYAN, V.; ALONSO, A.M.; NOGALES, F. J.
D-trace Precision Matrix Estimation Using Adaptive Lasso Penalties, *UC3M Working papers. Statistics and Econometrics 15-20*, 2015.
- AYMA, D.A.; DURBAN, M. L. ; LEE, D.-J.; EILERS, P.H.C.
Penalized composite link mixed models for two-dimensional count data, *UC3M Working papers. Statistics and Econometrics 15-09* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- BENCHIMOL, A.G.; ALBARRAN, I.; MARÍN, J.M.; ALONSO, P. J.
Hierarchical Lee-Carter model estimation through data cloning applied to demographically linked countries, *UC3M Working papers. Statistics and Econometrics 15-10* UNIVERSIDAD CARLOS III DE MADRID, 2015.

- CABRAS, S.; TENA, J.D.
A Bayesian model to estimate causality in PISA scores: a tutorial with application to ICT, *UC3M Working papers. Statistics and Econometrics 15-15* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- CARLOMAGNO, G.; ESPASA, A.
Forecasting a large set of disaggregates with common trends and outliers, *UC3M Working papers. Statistics and Econometrics 15-18* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- CARLOMAGNO, G.; ESPASA, A.
Discovering common trends in a large set of disaggregates: statistical procedures and their properties, *UC3M Working papers. Statistics and Econometrics 15-19* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- CORONA, F.; TENA, J.D; WIPER, M. P.
On the importance of the probabilistic model in identifying the most decisive game in a tournament, *UC3M Working papers. Statistics and Econometrics 15-14*, 2015.
- GALEANO, P. ; WIED, D.
Dating multiple change points in the correlation matrix, University of Dortmund, 2015.
- GOMEZ, M. ; AUSIN, M. C. ; DOMÍNGUEZ, M.C.
Seasonal copula models for the analysis of glacier discharge at King George Island, Antarctica, *UC3M Working papers. Statistics and Econometrics 15-13*, 2015.
- GONÇALVES, J.H.; RUIZ, E.; VEIGA, H.
Model uncertainty and the forecast accuracy of ARMA models: A survey, *UC3M Working papers. Statistics and Econometrics 15-08* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- GUADARRAMA, M.; MOLINA, I.; RAO, J.N.K.
A Comparison of Small Area Estimation Methods for Poverty Mapping, *UC3M Working papers. Statistics and Econometrics 15-05* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- Jorge E. Galán; RAMOS, S.B.; LOPES MOREIRA, M.H.
An analysis of the dynamics of efficiency of mutual funds, *UC3M Working papers. Statistics and Econometrics 15-17*, 2015.
- JOSEPH, E.; GALEANO, P. ; LILLO, R.E.
Two-sample Hotelling's T^2 statistics based on the functional Mahalanobis semi-distance, *UC3M Working papers. Statistics and Econometrics 15-03* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- LAFIT, G.; NOGALES, F. J. ; ZAMAR, R.H.
Ranking Edges and Model Selection in High-Dimensional Graphs, *UC3M Working papers. Statistics and Econometrics 15-11* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- MEI, X.; NOGALES, F. J.
Portfolio selection with proportional transaction costs and predictability, *UC3M Working papers. Statistics and Econometrics 15-21* UNIVERSIDAD CARLOS III DE MADRID, 2015.

- MINGOTTI, N.; LILLO, R.E.; ROMO, J.
A Random Walk Test for Functional Time Series, *UC3M Working papers. Statistics and Econometrics 15-06* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- NIÑO-MORA, J.
A verification theorem for indexability of discrete time real statediscounted restless bandits, 2015.
- PAPE, K.; WIED, D.; GALEANO, P.
Monitoring multivariate variance changes, University of Dortmund, 2015.
- PONCELA, M. D. P. ; RUIZ, E.
Small versus big-data factor extraction in Dynamic Factor Models: An empirical assessment, *UC3M Working papers. Statistics and Econometrics 15-02* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- RUIZ, C.; NOGALES, F. J. ; PRIETO, F.J.
Retail competition with switching consumers in electricity markets, *UC3M Working Papers. Statistics and Econometrics 15-22* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- RUIZ, E.; TRUCÍOS, C.; HOTTA, L.K.
Robust bootstrap forecast densities for GARCH models: returns, volatilities and value-at-risk, *UC3M Working Papers Statistics and Econometrics 15-23* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- Torres, R.; LILLO, R.E.; LANIADO, H.
A Directional Multivariate Value at Risk, *UC3M Working papers. Statistics and Econometrics 15-01* UNIVERSIDAD CARLOS III DE MADRID, 2015.
- UGAZ, W.E.; SANCHEZ, I.
Adaptive EWMA Control Charts with a Time Varying Smoothing Parameter, *UC3M Working papers. Statistics and Econometrics 15-07* UNIVERSIDAD CARLOS III DE MADRID, 2015.

Ponencias y Comunicaciones a congresos

- AGUILERA, M.D.C.; AGUILERA, A.M.; DURBAN, M. L.
Regresión penalizada para datos funcionales con dependencia espacial, XXXV Congreso Nacional de Estadística e Investigación Operativa, IX Jornadas de Estadística Pública (SEIO 2015), PAMPLONA/IRUÑA, ESPAÑA, 2015.
- AGUILERA, M.D.C.; AGUILERA, A.M.; VALDERRAMA, M.J.
Clasificación multinomial de datos funcionales mediante regresión penalizada de mínimos cuadrados parciales, Congreso de la RSME 2015, GRANADA, ESPAÑA, 2015.
- AGUILERA, M.D.C.; LILLO, R.E.; ROMO, J. ; SUBCOMITÉ DE EICH/INMUNOTERAPIA DEL GRUPO ESPAÑOL DE TRASPLANTE HEMATOPOYÉTICO, G.
Un nuevo modelo predictivo basado en el perfil genómico de porlismorfismos en genes de citocinas permite predecir la incidencia de EICR post-trasplante hematopoyético, Jornadas de Investigación del Instituto de Investigación Sanitaria Gregorio Marañón, ESPAÑA, 2015.

- ARIBAS, A.
Detección de outliers en muy alta dimension : aplicacion al analisis de matrices de conectividad en neurociencias, Congreso de Jóvenes Investigadores (Real Sociedad Matemática Española, RSME), MURCIA, ESPAÑA, 2015.
- AYMA, D.A.; DURBAN, M. L. ; LEE, D.-J.
Spatial disaggregation of mortality data using penalized composite link mixed models, Spatial Statistics 2015: Emerging Patterns, Avignon, FRANCIA, 2015.
- CABANA, E.
Robust regression based on depth measures for the fMRI problem, I International Workshop on Advances in Functional Data Analysis, GETAFE, ESPAÑA, 2015.
- CABRAS, S.
A Markovian process representation of multiple testing, 11th International Workshop Objective Bayes Methodology (O-Bayes15), VALENCIA, ESPAÑA, 2015.
- CABRAS, S.; CASTELLANOS, M.E.; RATMANN, O.
Conditional predictive p-values an ABC revisi, 11th International Workshop Objective Bayes Methodology (O-Bayes15), VALENCIA, ESPAÑA, 2015.
- CABRAS, S.; CASTELLANOS, M.E.; RATMANN, O.
The conditional predictive $\$p$ - $\$value$ in ABC, 8th International Conference of the ERCIM WG on Computing & Statistics (CMStatistics 2015), Londres, 2015.
- CARBALLO, A.; DURBAN, M. L. ; LEE, D.-J.
Forecasting with generalized additive models, I International Workshop on Advances in Functional Data Analysis, GETAFE, ESPAÑA, 2015.
- D AURIA, B.
Proportional switching in FIFO networks, 18th INFORMS Applied Probability Conference, Istanbul, TURQUIA, 2015.
- David Delgado Gomez; RUIZ, D.
Probabilistic Scheduling Model for Reduction of No-Showns in Psychiatric, Euro Mini Conference: Improving Healthcare: New Chalenges, New Approaches, Coimbra, PORTUGAL, 2015.
- DURBAN, M. L.
Splines con penalizaciones: una herramienta flexible en bioestadística, 25° Simposio Internacional de Estadística 2015, Armenia, COLOMBIA, 2015.
- ESCABIAS, M.; AGUILERA, A.M.; AGUILERA, M.D.C.; VALDERRAMA, M.J.
An online application for applying functional data analysis without expert knowledge, I International Workshop on Advances in Functional Data Analysis, GETAFE, ESPAÑA, 2015.
- ESPASA, A.
22 years of forecasting experience at the Bulletin of Inflation and Macroeconomic Analysis, NBP Workshop on Forecasting, Narodowy Bank Polski, POLONIA, 2015.

- ESPASA, A.; CARLOMAGNO, G.
Forecasting a large set of disaggregates with common trends and outliers, 17th EBES Conference Venice, Venecia, 2015.
- ESPASA, A.; CARLOMAGNO, G.
The pairwise approach to model and forecast a large set of disaggregates with common trends, NBP Workshop on Forecasting, Narodowy Bank Polski, POLONIA, 2015.
- FLORES, R.J.; KHMELNITSKAYA, A.; TEJADA, J.; MOLINA, E.
Average forest value for directed graph restricted games, SING11-GTM2015: European Meeting on Game Theory, San Petersburgo, RUSIA, 2015.
- GALEANO, P.
Statistical analysis of networks with R, Workshop on Big Data and Statistics, CORUÑA, A, ESPAÑA, 2015.
- GALEANO, P.
Big data analysis from a statistical perspective: opportunities and challenges, Jornada Big Data en Energía, SANTIAGO DE COMPOSTELA, ESPAÑA, 2015.
- GALEANO, P.
Dating multiple change points in time series correlations with applications to financial returns, Statistical Models for Complex Data, Napoles, ITALIA, 2015.
- GOMEZ, M.; AUSIN, M. C. ; DOMINGUEZ, M.D.C.
Copula-based models for the analysis of glacier discharge at King George Island, Antarctica, XXXV Congreso Nacional de Estadística e Investigación Operativa. IX Jornadas de Estadística Pública (SEIO 2015), PAMPLONA/IRUÑA, ESPAÑA, 2015.
- GRANE, A.; ALBARRAN, I.
Nuevas tendencias en la modelización actuarial: de los GAM a los métodos DB, II Jornadas de Investigación Actuarial y Financiera, MADRID, ESPAÑA, 2015.
- LILLO, R.E.; DAOUDI, J.
DPLN: data analysis in insurance and finance, International Conference on Risk Analysis (ICRA 6 / RISK 2015), BARCELONA, ESPAÑA, 2015.
- LILLO, R.E.; FLORES, R.J.; ROMO, J.
Homogeneity test for functional data, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), Londres, 2015.
- LILLO, R.E.; RAMÍREZ, J. ; RODRIGUEZ, J.V.
The non-stationary Markovian arrival process in failure modeling, 16th Conference on applied stochastic models and data analysis, Atenas, GRECIA, 2015.
- LILLO, R.E.; RAMÍREZ, J. ; WIPER, M. P.
Bayesian analysis of the stationary MAP2, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), Londres, 2015.

- LILLO, R.E.; ROMO, J. ; AGUILERA, M.D.C.
A new multiple single nucleotide polymorphisms based predictive model for grades III to IV and extensive Graft versus host disease after identical HLA allogeneic stem cell transplantation, 57th Annual Meeting and Exposition American Society of Hematology, Orlando, Florida, 2015.
- LILLO, R.E.; ROMO, J. ; AGUILERA, M.D.C.
Using P-splines for variable selection in functional regression, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), Londres, 2015.
- LILLO, R.E.; ROMO, J. ; AGUILERA, M.D.C.; GETH, S.E.I.G.E.T.H.
Un nuevo modelo predictivo basado en el perfil genómico de polimorfismos en genes de citocinas permite predecir la incidencia de EICR en trasplante hematopoyético alogénico, LVII Congreso Nacional de la Sociedad Española de Hematología y Hemoterapia, VALENCIA, ESPAÑA, 2015.
- LILLO, R.E.; TORRADO, N.
Stochastic bounds for times elapsed between successive failures of components in reliability systems, International Conference on Risk Analysis (ICRA 6 / RISK 2015), BARCELONA, ESPAÑA, 2015.
- LILLO, R.E.; Torres, R.; LANIADO, H.; DE MICHELE, C.
Directional approach to identify extremes, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), Londres, 2015.
- LOPES MOREIRA, M.H.; RAMOS, S.; MARTIN, B.
Correlations between oil and stock markets: a wavelet-based approach, Commodity Markets Workshop, Oslo, NORUEGA, 2015.
- MOLINA, E. ; FLORES, R.J.; KHMELNITSKAYA, A.; TEJADA, J.
Evaluating organizational leadership in social networks, 27th European Conference on Operational Research (EURO 2015), Glasgow, 2015.
- MOLINA, I.; GRAF, M.; MARIN, J.M.
Poverty mapping at local level with suitable modelling of income, New Techniques and Technologies for Statistics (NTTS 2015), Bruselas, BÉLGICA, 2015.
- MOLINA, I.; GRAF, M.; MARIN, J.M.
Estimation of poverty in small areas under skewed distributions, 60th World Statistics Congress (ISI2015), Rio de Janeiro, BRASIL, 2015.
- MOLINA, I.; GUADARRAMA, M.; RAO, J.N.K.; TILLÉ, Y.
Small area estimation of complex parameters under complex sampling designs, First Latin American ISI Satellite Meeting on Small Area Estimation (SAE 2015), Santiago, CHILE, 2015.
- MYLONA, K.; MATTHEWS, E.; WOODS, D.
Supersaturated split-plot designs: construction and statistical modelling, DEMA 2015, Sydney, AUSTRALIA, 2015.

- PEÑA, D.
Generalized dynamic principal components, 2015 NBER-NSF Time Series Conference, *Viena*, 2015.
- PEÑA, D.
Robust dynamic principal components, Current and Future Challenges in Robust Statistics (Banff Center), CANADA, 2015.
- PEÑA, D.
Big data and statistical advances, Xornada sobre Big Data e Estatística, *CORUÑA, A, ESPAÑA*, 2015.
- PEÑA, D.
Generalized dynamic principal components, ITISE 2015 (International work-conference on Time Series), *GRANADA, ESPAÑA*, 2015.
- RODRIGUEZ, J.V.; LILLO, R.E.; RAMÍREZ, J.
Modelización de fallos mediante el proceso MAP no estacionario = Failure modeling with the non-stationary MAP, Congreso de la Real Sociedad Matemática de España (RSME 2015), *GRANADA, ESPAÑA*, 2015.
- RODRIGUEZ, J.V.; LILLO, R.E.; RAMÍREZ, J.
Influence of the dependence patterns in the reliability of the BMAP, 8th International conference of the european research consortium for informatics and mathematics (ERCIM), *Londres, REINO UNIDO*, 2015.
- RODRIGUEZ, J.V.; LILLO, R.E.; RAMÍREZ, J.
Modeling N electrical component failures using non-stationary Markovian arrival processes, International Conference on Risk Analysis (ICRA 6 / RISK 2015), *BARCELONA, ESPAÑA*, 2015.
- ROMERA, M. R.
On risk processes controlled by investment and reinsurance, SIAM Conference on Control and its Applications (CT15), *Paris*, 2015.
- ROMO, J.
Ponencia, Workshop Methodological advances in statistics related to big data, *CASTRO URDIALES, ESPAÑA*, 2015.
- ROMO, J.
Depth and functional data analysis, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), *Londres*, 2015.
- ROMO, J. ; ARRIBAS, A.
High-dimensional outliers and depth: the outliergram, Joint Statistical Meetings (JSM 2015), *Seattle, ESTADOS UNIDOS DE AMERICA*, 2015.
- ROMO, J. ; ARRIBAS, A.
Robust analysis of high-dimensional functional data, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), *Londres*, 2015.

- ROMO, J. ; LILLO, R.E.; FLORES, R.J.
Distances between functional samples based on depth measures, German Statistical Week 2015, Hamburgo, 2015.
- ROMO, J. ; LILLO, R.E.; MINGOTTI, N.
Random walk test for functional autoregressive processes of order one, XXXV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2015), PAMPLONA/IRUÑA, ESPAÑA, 2015.
- SGUERA, C.; GALEANO, P. ; LILLO, R.E.
Functional outlier detection with a local spatial depth, International Conference on Robust Statistics, 2015, Kolkata, INDIA, 2015.
- Torres, R.; LILLO, R.E.; LANIADO, H.
A directional multivariate extremes identification[/expand], 9th International Conference in extreme value analysis, Ann Harbor, ESTADOS UNIDOS DE AMERICA, 2015.
- Torres, R.; LILLO, R.E.; LANIADO, H.
Multivariate risk measures: a directional approach for a value at risk, International Conference on Risk Analysis (ICRA 6 / RISK 2015), BARCELONA, ESPAÑA, 2015.
- VELILLA, S.
A note on collinearity and centering in linear regression, JSM2015, Seattle, ESTADOS UNIDOS DE AMERICA, 2015.
- WIPER, M. P. ; AUSIN, M. C. ; CARNICERO, J.A.
Adapting the Bernstein copula to modeling cylindrical and spherical data with applications, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), Londres, 2015.

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

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País: URUGUAY
Duración: 11/2015 a 12/2015.
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