

DEPARTAMENTO DE
ESTADISTICA

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Actividades de investigación

Tesis Doctorales

- Objective bayesian variable selection for censored data
Autores: PERRA, S.
Director/Codirectores: CABRAS, S.
Año: 2013
- Parameter uncertainty in portfolio optimization
Autores: MARTIN, A.
Director/Codirectores: DE MIGUEL, V.; NOGALES, F. J.
Centro donde se presentó: FACULTAD CIENCIAS SOCIALES Y JURIDICAS
Año: 2013
- Time series segmentation procedures to detect, locate and estimate change-points
Autores: BADAGIAN, A.
Director/Codirectores: PEÑA, D. ; KAISER, R.
Centro donde se presentó: FACULTAD CIENCIAS SOCIALES Y JURIDICAS
Año: 2013

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- ALONSO, A.M.; BARBOSA, S.; SCOTTO, M.
Extreme-based clustering of environmental time series, *Boletín de estadística e investigación operativa*, Vol. 29, Núm. 2, 2013, pp. 92-102, ESPAÑA.
- COMECHE, L.; ECHAVE, J.M.; GARCIA, R.; ALBARRAN, I.; ALONSO, P. J. ; LLORENTE, M.J.
Prevalence of anaemia associated with chronic obstructive pulmonary disease: study of associated variables, *Archivos de bronconeumología*, Vol. 49, Núm. 9, 2013, pp. 383-387, ESPAÑA.
- STRZALKOWSKA-KOMINIAK, E.; STUTE, W.
Empirical copulas for consecutive survival data, *Test*, Vol. 22, Núm. 4, 2013, pp. 688-714, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ALONSO, A.M.; PEÑA, D. ; RODRIGUEZ, J.
Prediccion de clusters de series temporales demográficas, *MedULA*, Vol. 22, Núm. 1, 2013, pp. 25-28, VENEZUELA.
- ALONSO, A.M.; SIPOLS, A.E.; QUINTAS, S.
A single-index model procedure for interpolation intervals in time series, *Computational statistics*, Vol. 28, Núm. 4, 2013, pp. 1463-1484, ALEMANIA.

- ANSELMI, J.; D AURIA, B.; WALTON, N.
Closed queueing networks under congestion: nonbottleneck independence and bottleneck convergence, *Mathematics of operations research*, Vol. 38, Núm. 3, 2013, pp. 469-491, HOLANDA - PAISES BAJOS.
- ARMENTEROS, M. ; LIAW, S.S.; FERNANDEZ, M.; FLORES, R.J.; ARTEAGA, R.
Surveying FIFA instructors' behavioral intention toward the Multimedia Teaching Materials, *Computers and Education*, Núm. 61, 2013, pp. 91-104, HOLANDA - PAISES BAJOS.
- BATSIDIS, A.; HORVATH, L.; MARTIN, N.; PARDO, L.; ZOGRAFOS, K.
Change-point detection in multinomial data using phi-divergence test statistics, *Journal of Multivariate Analysis*, Vol. 118, 2013, pp. 53-66, ESTADOS UNIDOS DE AMERICA.
- BATSIDIS, A.; MARTIN, N.; PARDO, L.; ZOGRAFOS, K.
A necessary power divergence type family tests of multivariate normality, *Communications in statistics. Simulation and computation*, Vol. 42, Núm. 10, 2013, pp. 2253-2271, ESTADOS UNIDOS DE AMERICA.
- BERMOND, J.C.; KLASING, R.; MORALES, N.; PERENNES, S.; REYES, P.A.
Gathering radio messages in the path, *Discrete mathematics, algorithms and applications*, Vol. 1, Núm. 5, 2013, SINGAPUR.
- BUFFA, R.; SARAGAT, B.; CABRAS, S.; RINALDI, A.C.; MARINI, E.
Accuracy of specific BIVA for the assessment of body composition in the United States population, *PLoS one*, Vol. 8, Núm. 3, 2013, ESTADOS UNIDOS DE AMERICA.
- CARNICERO, J.A.; AUSIN, M. C. ; WIPER, M. P.
Non-parametric copulas for circular-linear and circular-circular data: an application to wind directions, *Stochastic environmental research and risk assessment*, Vol. 27, Núm. 8, 2013, pp. 1991-2002, ALEMANIA.
- CASARIN, R.; CRAIU, R.; LEISEN, F.
Interacting multiple try algorithms with different proposal distributions, *Statistics and Computing*, Vol. 23, Núm. 2, 2013, pp. 185-200, REINO UNIDO.
- CASCOS, I.; MOLCHANOV, I.
Choosing a random distribution with prescribed risks, *Insurance. Mathematics and economics*, Vol. 52, Núm. 3, 2013, pp. 599-605, HOLANDA - PAISES BAJOS.
- David Delgado Gomez; LÓPEZ, J.; DE LEON, V.; BACA, E.; CABANAS, M.L.; SANCHEZ, A.; AGUADO, D.
Psychometrical assessment and item analysis of the General Health Questionnaire in victims of terrorism, *Psychological assessment*, Vol. 25, Núm. 1, 2013, pp. 279-287, ESTADOS UNIDOS DE AMERICA.
- DEMIGUEL, V.; MARTIN, A.; NOGALES, F. J.
Size matters: optimal calibration of shrinkage estimators for portfolio selection, *Journal of banking and finance*, Vol. 37, Núm. 8, 2013, pp. 3018-3034, HOLANDA - PAISES BAJOS.
- ESPASA, A.; DURBAN, M. L.
Comments on: Short-term forecasting the daily load curve for residential electricity usage in the smart grid [book review], *Applied Stochastic Models in Business and Industry*, Vol. 29, Núm. 6, 2013, pp. 621-623, REINO UNIDO.

- ESPASA, A.; MAYO, I.
Forecasting aggregates and disaggregates with common features, *International journal of forecasting*, Vol. 29, Núm. 4, 2013, pp. 718-732, HOLANDA - PAISES BAJOS.
- GABRIEL, S.A.; CONEJO, A.J.; RUIZ, C.; SIDDIQUI, S.
Solving discretely constrained, mixed linear complementarity problems with applications in energy, *Computers and operations research*, Vol. 40, Núm. 5, 2013, pp. 1339-1350, REINO UNIDO.
- GABRIEL, S.A.; SIDDIQUI, S.; CONEJO, A.J.; RUIZ, C.
Solving discretely-constrained nash-cournot games with an application to power markets , *Networks and spatial economics*, Vol. 13, Núm. 3, 2013, pp. 307-326, ESTADOS UNIDOS DE AMERICA.
- GONZALEZ, I. M. ; SANCHEZ, I.
Optimal centering and tolerance design for correlated variables, *International journal, advanced manufacturing technology*, Vol. 66, Núm. 9-12, 2013, pp. 1499-1510, REINO UNIDO.
- GONZALEZ, J.; MUÑOZ, A.
Functional analysis techniques to improve similarity matrices in discrimination problems, *Journal of Multivariate Analysis*, Vol. 120, 2013, pp. 120-134, ESTADOS UNIDOS DE AMERICA.
- GRANE, A.; TCHIRINA, A.V.
Asymptotic properties of a goodness-of-fit test based on maximum correlations, *Statistics*, Vol. 47, Núm. 1, 2013, pp. 202-215, HOLANDA - PAISES BAJOS.
- KAZEMPOUR, S.J.; CONEJO, A.J.; RUIZ, C.
Generation investment equilibria with strategic producers : part II, case studies, *IEEE Transactions on Power Systems*, Vol. 28, Núm. 3, 2013, pp. 2623-2631, ESTADOS UNIDOS DE AMERICA.
- KAZEMPOUR, S.J.; CONEJO, A.J.; RUIZ, C.
Generation investment equilibria with strategic producers. Part I: formulation, *IEEE Transactions on Power Systems*, Vol. 28, Núm. 3, 2013, pp. 2613-2622, ESTADOS UNIDOS DE AMERICA.
- KUZNETSOVA, E.; LI, Y.; RUIZ, C.; ZIO, E.; AULT, G.; BELL, K.
Reinforcement learning for microgrid energy management , *Energy*, Vol. 59, Núm. 2013, 2013, pp. 133-146, REINO UNIDO.
- LEE, D.J.; DURBAN, M. L. ; EILERS, P.
Efficient two-dimensional smoothing with P-spline ANOVA mixed models and nested bases, *Computational statistics and data analysis*, Vol. 61, 2013, pp. 22-37, HOLANDA - PAISES BAJOS.
- LEISEN, F.; LIJOI, A.; SPANO, D.
A vector of Dirichlet processes, *ELECTRONIC JOURNAL OF STATISTICS*, Vol. 7, 2013, pp. 62-90, ESTADOS UNIDOS DE AMERICA.
- LEONTI, M.; CABRAS, S.; CASTELLANOS, M.E.; CHALLENGER, A.; GERTSCH, J.; CASU, L.
Bioprospecting: evolutionary implications from a post-Olmec pharmacopoeia and the relevance of widespread Taxa, *Journal of Ethnopharmacology*, Vol. (1), Núm. 147, 2013, pp. 92-107, HOLANDA - PAISES BAJOS.
- MARHUENDA, Y.; MOLINA, I.; MORALES, D.
Small area estimation with spatio-temporal Fay-Herriot models , *Computational statistics and data analysis*, Vol. 58, 2013, pp. 308-325, HOLANDA - PAISES BAJOS.

- MARTIN, N.; BALAKRISHNAN, N.
Hypothesis testing in a generic nesting framework for general distributions, *Journal of Multivariate Analysis*, Vol. 118, 2013, pp. 1-23, ESTADOS UNIDOS DE AMERICA.
- MARTIN, N.; BASU, A.; MANDAL, A.; PARDO, L.
Testing statistical hypotheses based on the density power divergence, *Annals of the Institute of Statistical Mathematics*, Vol. 65, Núm. 2, 2013, pp. 319-348, JAPON.
- MUÑOZ, A. ; MARTOS, G.A.; GONZALEZ, J.
On the generalization of the mahalanobis distance, *Lecture notes in computer science*, Vol. 8258, 2013, pp. 125-132, ALEMANIA.
- OLIVEIRA, F.S.; RUIZ, C.; CONEJO, A.J.
Contract design and supply chain coordination in the electricity industry, *European journal of operational research*, Vol. 227, Núm. 3, 2013, pp. 527-537, HOLANDA - PAISES BAJOS.
- POLLOCK, D.S.G.; PROIETTI, T.; RUIZ, E.; WEINERT, H.
Statistical signal extraction and filtering , *Computational statistics and data analysis*, Vol. 58, Núm. Especial, 2013, pp. 1-3, HOLANDA - PAISES BAJOS.
- RAMOS, S.B.; LOPES MOREIRA, M.H.
Oil price asymmetric effects: answering the puzzle in international stock markets, *Energy economics*, Vol. 38, 2013, pp. 136-145, REINO UNIDO.
- RUIZ, C.; CONEJO, A.J.; BERTSIMAS, D.J.
Revealing Rival Marginal Offer Prices Via Inverse Optimization, *IEEE Transactions on Power Systems*, Vol. 28, Núm. 3, 2013, pp. 3056-3064, ESTADOS UNIDOS DE AMERICA.
- RUIZ, E.; SCAGLIONE, M.; CROUSHORE, D.
Introduction to flash indicators, *International journal of forecasting*, Vol. 29, 2013, pp. 642-643, HOLANDA - PAISES BAJOS.
- SODDU, S.; FELICE, E.D.; CABRAS, S.; CASTELLANOS, M.E.; ATZORI, L.; FAA, G.; PILLONI, L.
IMP-3 expression in keratoacanthomas and squamous cell carcinomas of the skin: an immunohistochemical study, *European journal of histochemistry*, Vol. 1, Núm. 57, 2013, pp. 36-40, ITALIA.
- STRZALKOWSKA-KOMINIAK, E.; CAO, R.
Maximum likelihood estimation for conditional distribution single-index models under censoring, *Journal of Multivariate Analysis*, Vol. 114, 2013, pp. 74-98, ESTADOS UNIDOS DE AMERICA.
- TENA. J.D; BURGOS-MORON, E.; CALDERON-MONTAÑO, J.M.; SANZ, I.; SAINZ, J.; LOPEZ-LAZARO, M.
Consumption of the dietary flavonoids quercetin, luteolin and kaempferol and overall risk of cancer -a review and meta-analysis of the epidemiological data, *WebmedCentral*, Vol. 4, Núm. 5, 2013.
- TORRADO, N.; LILLO, R. E.
Likelihood ratio order of spacings from two heterogeneous samples , *Journal of Multivariate Analysis*, Vol. 114, 2013, pp. 338-348, ESTADOS UNIDOS DE AMERICA.
- TORRADO, N.; WIPER, M. P. ; LILLO, R. E.
Software Reliability Modeling with Software Metrics Data via Gaussian Processes, *IEEE Transactions on Software Engineering*, Vol. 39, Núm. 8, 2013, pp. 1179-1186, ESTADOS UNIDOS DE AMERICA.

- TORRENTE, E. A. ; LOPEZ, S. ; ROMO, J.
DepthTools: an R package for a robust analysis of gene expression data, *BMC Informatics*, Vol. 14, Núm. 237, 2013, pp. 1-11, REINO UNIDO.
- WIED, D.; GALEANO, P.
Monitoring correlation change in a sequence of random variables, *Journal of Statistical Planning and Inference*, Vol. 143, Núm. 1, 2013, pp. 186-196, HOLANDA - PAISES BAJOS.

Libros

- GABRIEL, S.A.; CONEJO, A.J.; FULLER, D.; HOBBS, B.; RUIZ, C.
Complementarity Modeling in Energy Markets , *SPRINGER* , ESPAÑA, 2013.
- PERRA, S.; CABRAS, S.; CASTELLANOS, M.E.
Objective bayesian variable selection for censored data. , 2013.

Colaboraciones en obras colectivas

- CABRAS, S.
Default priors based on pseudo-likelihoods for the Poisson-GPD Model, en: Advances in theoretical and applied statistics, *SPRINGER* , ALEMANIA, pp. 3-12, 2013.
- CABRAS, S.; TENA. J.D
Estimación del efecto casual del uso de ordenadores en los resultados de los estudiantes en el test PISA 2012, en: PISA 2012. Volumen II, Análisis secundario, MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE - SECRETARIA GENERAL DE UNIVERSIDADES, ESPAÑA, pp. 67-88, 2013.
- GALEANO, P. ; PEÑA, D.
Finding outliers in linear and nonlinear time series, en: Robustness and complex data structures, *SPRINGER* , ALEMANIA, pp. 243-260, 2013.
- LILLO, R. E. ; FRANCO, A. M. ; SHAKED, M.; UÑA, J.
Decreasing percentile residual life aging notion: properties and estimation, en: Stochastic orders in reliability and risk : in honor of Professor Moshe Shaked, *SPRINGER* , ESTADOS UNIDOS DE AMERICA, pp. 183-198, 2013.
- LILLO, R. E. ; TORRADO, N.
Sampla spacings with applications in multiple-outlier models, en: Stochastic orders in reliability and risk : in honor of Professor Moshe Shaked, *SPRINGER* , ESTADOS UNIDOS DE AMERICA, pp. 103-123, 2013.
- MENDES, M.; CASCOS, I.
Risk measures and stochastic orders using integrals of distorted quantile functions, en: Recent developments in modeling and applications in statistics, *SPRINGER* , ALEMANIA, pp. 261-269, 2013.

Documentos de trabajo

- ALBARRAN, I.; ALONSO, P. J. ; ARRIBAS, A.
Dependency evolution in Spanish disabled population : a functional data analysis approach, *Statistics and Econometrics Series 13-03*, 2013.

- ALVAREZ, A.; PEÑA, D.
Recombining partitions via unimodality tests, *Statistics and Econometrics Series 13-07* Universidad Carlos III De Madrid. Departamento de Estadística, 2013.
- BADAGIAN, A.; KAISER, R. ; PEÑA, D.
The change-point problem and segmentation of processes with conditional heteroskedasticity, *Statistics and Econometrics Series 13-18* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- BENITO, M. ; ROMERA, M. R.
How to boost the PhD labour market? : facts from the R&D and innovation policies side, *Statistics and Econometrics Series 13-27*, 2013.
- BENITO, M. ; ROMERA, M. R.
How to boost the PHD labour market? : facts from PHD system side, *Statistics and Econometrics Series 13-24* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- BRETO, C.
Trajectory composition of Poisson time changes and Markov counting systems, *arXiv 1312.5901* Cornell University Library, 2013.
- BRETO, C.
Co-jumps and Markov counting systems in random environments, *arXiv 1312.5903* Cornell University Library, 2013.
- BRETO, C.
On idiosyncratic stochasticity of financial leverage effects, *arXiv 1312.5496* Cornell University Library, 2013.
- CASCOS, I.; MOLCHANOV, I.
Multivariate risk measures : a constructive approach based on selections, *Statistics and Econometrics Series 13-01* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- DE LA HORRA, J.; MARIN, J.M.; RODRIGUEZ, M. T.
Bayesian inference and data cloning in population projection matrices, *Statistics and Econometrics Series 13-02* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- DE MIGUEL, A.V.; MARTIN, A.; NOGALES, F. J.
Parameter uncertainty in multiperiod portfolio optimization with transaction costs, *Statistics and Econometrics Series 13-19* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- DE MIGUEL, A.V.; MEI, X.; NOGALES, F. J.
Multiperiod portfolio selection with transaction and market-impact costs, *Statistics and Econometrics Series 13-15* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- FLORES, R.J.; MOLINA, E.; TEJADA, J.
The Shapley group value, *Statistics and Econometrics Series 13-30* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- JOSEPH, E.; GALEANO, P. ; LILLO, R. E.
The Mahalanobis distance for functional data with applications to classification, *Statistics and Econometrics Series 13-12* UNIVERSIDAD CARLOS III DE MADRID, 2013.

- LOPES MOREIRA, M.H.; RAMOS, S.; LATOIRO, P.
Predictability of stock market activity using Google search queries, *Statistics and Econometrics Series 13-05* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- LOPES MOREIRA, M.H.; RAMOS, S.; MARTIN, B.
Correlations between oil and stock markets: a wavelet-based approach, *Statistics and Econometrics Series 13-04* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- LOPES MOREIRA, M.H.; RUIZ, E.; MAO, X.
One for all: nesting asymmetric stochastic volatility models, *Statistics and Econometrics Series 13-10* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- LOPES MOREIRA, M.H.; WIPER, M. P. ; Jorge E. Galán
Bayesian analysis of dynamic effects in inefficiency: evidence from the Columbian banking sector, *Statistics and Econometrics Series 13-18* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- MARIN, J.M.; RODRIGUEZ, M. T. ; ROMERO, E.
Data cloning estimation of GARCH and COGARCH models, *Statistics and Econometrics Series 13-23* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- MÍNGUEZ, R.; DURBAN, M. L. ; MONTERO, J.M.; LEE, D.-J.
Modelling long term trend and local spatial correlation : a mixed penalized spline and spatial econometrics approach, *Statistics and Econometrics Series 13-25* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- PINO, G.; TENA. J.D; ESPASA, A.
Forecasting disaggregates by sectors and regions : the case of inflation in the euro area and Spain, *Statistic and Econometric Series 13-07* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- RODRÍGUEZ, M.X.; LEE, D.-J.; KNEIB, T.; DURBAN, M. L. ; EILERS, P.
Fast algorithm for smoothing parameter selection in multidimensional generalized P-splines, *Statistics and Econometrics Series 13-26* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- ROMO, J. ; LILLO, R. E. ; MINGOTTI, N.
Lasso variable selection for functional regression, *Statistics and Econometrics Series 13-13* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- TENA. J.D; FIDRMUC, J.
National minimum wage and employment of young workers in the UK, *CESifo Working paper 4286* CESifo, 2013.
- TENA. J.D; PINO, G.; MARQUES, H.
Do happiness indexes truly reveal happiness? Measuring happiness using revealed preferences from migration flows, *DEA Working papers 59* UNIVERSITAT DE LES ILLES BALEARS, 2013.
- VALENCIA, D.J.; LILLO, R. E. ; ROMO, J.
Spearman coefficient for functions, *UC3M Working papers. Statistics and Econometrics Series 13-29*, 2013.
- VALENCIA, D.J.; LILLO, R. E. ; ROMO, J.
A Kendall correlation coefficient for functional dependence, *UC3M Working papers. Statistics and Econometrics Series 13-28*, 2013.

- VELILLA, S. ; NGUYEN, H.
A new goodness-of-fit process for varma (p,q) models: construction and empirical properties, *Statistics and Econometrics Series 13-21* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- VIRBICKAITE, A.; AUSIN, M. C. ; GALEANO, P.
A Bayesian non-parametric approach to asymmetric dynamic conditional correlation model with application to portfolio selection, *Statistics and Econometrics Series 13-09* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- VIRBICKAITE, A.; AUSIN, M. C. ; GALEANO, P.
Bayesian non-parametric approach to asymmetric dynamic conditional correlation model with application to portfolio selection , *arXiv 1301* UNIVERSIDAD CARLOS III DE MADRID, 2013.
- ZHAO, Y.; AUSIN, M. C. ; WIPER, M. P.
Bayesian multivariate Bernstein polynomial density estimation, *Statistics and Econometrics Series 13-11* UNIVERSIDAD CARLOS III DE MADRID, 2013.

Ponencias y Comunicaciones a congresos

- AGUILERA, M.D.C.; AGUILERA, A.M.
Improving the quality of biscuit production: application of different functional data analysis approaches, 6th International Conference of the ERCIM Working Group On Computing and Statistics (ERCIM 2013), *Londres*, REINO UNIDO, 2013.
- ALONSO, A.M.; SCOTTO, M.G.; BERMUDEZ, P.
Comparing generalized pareto models fitted to extreme observation: an application to the largest temperatures in Spain, 6rd International Conference of the ERCIM Working Group on Computing & Statistics, *Londres*, REINO UNIDO, 2013.
- ALONSO-REVENGA, J.M.; MARTIN, N.
Estimadores de mínima Phi-divergencia en modelos loglineales con modelos de muestreo complejo. Aplicación para el modelo de Althman y Cohen., XXXIV Congreso de Estadística e Investigación Operativa, *CASTELLON DE LA PLANA*, ESPAÑA, 2013.
- ANSELMÍ, J.; D AURIA, B.; WALTON, N.
Congestion in Processor-Sharing Multi-Class Closed Networks: Stationary and Fluid Analysis, INFORMS Applied Probability Conference 2013, *San José*, COSTA RICA, 2013.
- AUSIN, M. C. ; GALEANO, P. ; VIRBICKAITE, A.
A bayesian non-parametric approach to asymmetric dynamis conditional correlation model with application to portfolio selection, XXXIX European Meeting of Statisticians, *Budapest*, HUNGRÍA, 2013.
- BRETO, C.
Stochastic leverage models via iterated filtering, 7th International Conference on Computational and Financial Econometrics 2013 (CFE 2013), *Londres*, REINO UNIDO, 2013.
- CABRAS, S.; CASTELLANOS, M.E.; RULI, E.
A default proposal distribution for ABA-MCMC, ABC, *Roma*, ITALIA, 2013.
- CABRAS, S.; CASTELLANOS, M.E.; RULI, E.
Quasi-likelihood for "intractable" posteriors, OBayes 2013, *Durham*, ESTADOS UNIDOS DE AMERICA, 2013.

- CABRAS, S.; VENTURA, L.; RACUGNO, W.
Aproximacion de alto orden asintotico para el contraste de significacion bayesiano de hipotesis nulas puntuales con parametros molestos, First LA-Bayes: Latin American School in Bayesian Statistics, San Jose, COSTA RICA, 2013.
- D AURIA, B.
Deciding if to Join or to Balk a Queueing Network by having only partial information about it, Stochastic Activity Month -QUEUES & RISK, Eindhoven, HOLANDA - PAISES BAJOS, 2013.
- DE MIGUEL, A.V.; MARTIN, A.; NOGALES, F. J.
Size Matters: Parameter uncertainty in multiperiod portfolio optimization with transactions costs, INFORMS Annual Meeting, Minneapolis, ESTADOS UNIDOS DE AMERICA, 2013.
- DURBAN, M. L. ; LEE, D.-J.
P-spline mixed models: a Flexible approach for spatio-temporal data, 7th Meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Tel Aviv, ISRAEL, 2013.
- DURBAN, M. L. ; LEE, D.-J.
Spatio-temporal seasonal data modelling and forecasting with penalized smooth ANOVA models, XXVIII International Workshop in Statistical Modelling, Palermo, ITALIA, 2013.
- DURBAN, M. L. ; SANCHEZ, M.
Multidimensional P-spline interaction mixed models for predicting aboveground in poplar short-rotation coppice, XIV Conferencia Española de Biometría, CIUDAD REAL, ESPAÑA, 2013.
- ESPASA, A.; CARLOMAGNO, G.
The disaggregation map approach to identify non-pervasive common features in a large set of disaggregates, The 7th International Conference on Computational and Financial Econometrics (CFE 2013), Londres, REINO UNIDO, 2013.
- ESPASA, A.; PINO, G.; TENA, J.D
Forecasting disaggregates by sectors and regions: the case of inflation in the Euro area and in Spain, A short-term sector-based anticipatory system for labour market trends, Bruselas, BÉLGICA, 2013.
- ESPASA, A.; PINO, G.; TENA, J.D
Forecasting disaggregates by sectors and regions: the case of inflation in the Euro area and in Spain, Conference in honour of Kenneth F. Wallis (Supported by the University of Warwick's Department of Economics, the Bank of England and the Journal of Applied Econometrics), Warwick, REINO UNIDO, 2013.
- FIRINU, D.; LORRAI, M.M.; PERALTA, M.M.; MURA, M.N.; PERRA, S.; CABRAS, S.; MANCONI, P.E.; DEL GIACCO, S.R.
Increased peripheral T(H)17 Cells in SAPHO syndrome: a novel target for treatment?; en: [Allergy](#), 2013.
- FLORES, R.J.
Funtores homotopicos idempotentes y espacios clasificadores, Congreso de la RSME 2013, SANTIAGO DE COMPOSTELA, ESPAÑA, 2013.
- FLORES, R.J.
Mapping spaces of nilpotent spaces and idempotent functors, Workshop on classifying spaces, loop spaces and finiteness. Universidad de Copenhagen, Copenhagen, DINAMARCA, 2013.
- FLORES, R.J.
Idempotent functors and classifying spaces, Samuel Eilenberg : centenary Conference, Varsovia, POLONIA, 2013.

- FLORES, R.J.
Home advantage and the importance of an away goal in a two-legged knockout tournament, 26th European Conference on Operational Research, *Roma*, ITALIA, 2013.
- FLORES, R.J.; MOLINA, E. ; TEJADA, J.A.
Poder y centralidad de grupos, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), *CASTELLON DE LA PLANA*, ESPAÑA, 2013.
- GALEANO, P. ; WIED, D.
Multiple break detection in the correlation structure of random variables, 29th European Meeting of Statisticians, *Budapest*, HUNGRÍA, 2013.
- GRANE, A.; LOPES MOREIRA, M.H.; MARTIN, B.
Outliers in multivariate GARCH models; en: Proceedings of the 7th Workshop on Simulation, 2013.
- JACH, A.E.; MCELROY, T.
Subsampling inference for the autocorrelations of GARCH processes, Workshop in Time Series Econometrics, *ZARAGOZA*, ESPAÑA, 2013.
- JIMENEZ, R.J.
Set estimation, 9th Iberian Workshop on Computational Geometry, *PALENCIA*, ESPAÑA, 2013.
- JIMENEZ, R.J.
Statistical methods for detecting electoral anomalies: the example of Venezuela, XXIX European Meeting of Statisticians, *Budapest*, HUNGRÍA, 2013.
- Jorge E. Galán; LOPES MOREIRA, M.H.; WIPER, M. P.
Bayesian analysis of dynamic effects in inefficiency: Evidence from the Colombian banking sector, 7th International Conference on Computational and Financial Econometrics (CFE 2013), *Londres*, REINO UNIDO, 2013.
- Jorge E. Galán; LOPES MOREIRA, M.H.; WIPER, M. P.
Bayesian analysis of dynamic effects in inefficiency: evidence from the colombian banking sector, 13th European Workshop on Efficiency and Productivity Analysis (EWEPAN'13) , *Helsinki*, FINLANDIA, 2013.
- JOSEPH, E.; GALEANO, P. ; LILLO, R. E.
The Mahalanobis distance for functional data with applications to classification, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), *CASTELLON DE LA PLANA*, ESPAÑA, 2013.
- JOSEPH, E.; GALEANO, P. ; LILLO, R. E.
The Mahalanobis distance for functional data with applications to classification, 6th International Conference of the ERCIM WG on Computational and Methodological Statistics, *Londres*, REINO UNIDO, 2013.
- LANIADO, H.; LILLO, R. E.
Configuración óptima entre las componentes de sistemas paralelo-series y series-paralelo utilizando ordenaciones estocásticas, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), *CASTELLON DE LA PLANA*, ESPAÑA, 2013.

- LILLO, R. E. ; RAMÍREZ, J. ; RODRIGUEZ, J.V.
Statistical estimation of non-stationary MAP2s, 15th Applied Stochastic Models and Data Analysis International Conference (ASMDA 2013), BARCELONA, ESPAÑA, 2013.
- LILLO, R. E. ; SGUERA, C.; GALEANO, P.
Spatial depth-based outlier detection for functional data, 6th International Conference of the ERCIM WG on Computational and Methodological Statistics (ERCIM 2013), Londres, REINO UNIDO, 2013.
- LILLO, R. E. ; SGUERA, C.; GALEANO, P.
Spatial depth-based outlier detection for functional data, Workshop "Functional and Complex Structure Data Analysis", CASTRO URDIALES, ESPAÑA, 2013.
- LOPES MOREIRA, M.H.
Modelling volatility and correlations, 7th International Conference on Computational and Financial Econometrics (CFE 2013), Londres, REINO UNIDO, 2013.
- LOPES MOREIRA, M.H.; RUIZ, E.; MAO, X.
Nesting asymmetric stochastic volatility models, First Meeting on Time Series Modelling and Computation, GETAFE, ESPAÑA, 2013.
- LÓPEZ, M.; CADARSO, C.; MOLANES, E.M.; LETON, E.
A Bayesian perspective of the Generalized Symmetry point, and optimal criterion for classification in diagnostic tests, XI Congreso Galego de Estadística e Investigación de Operacións, CORUÑA (LA), ESPAÑA, 2013.
- LÓPEZ, M.; CADARSO, C.; MOLANES, E.M.; LETON, E.
Estimación del punto de simetría generalizado para la clasificación en los tests de diagnóstico continuos, 2ª Reunión General de la Red Nacional de Biostatnet, SANTIAGO DE COMPOSTELA, ESPAÑA, 2013.
- LÓPEZ, M.; CADARSO, C.; MOLANES, E.M.; LETON, E.
GsymPoint: An R Package for estimating the Generalized Symmetry Point as the optimal cutpoint, 28th International Workshop on Statistical Modelling (IWSM 2013), Palermo, ITALIA, 2013.
- MANDAL, A.; BASU, A.; MARTIN, N.; PARDO, L.
Robust tests of hypothesis: the density power divergence approach, 2013 IISA Conference, Chennai, INDIA, 2013.
- MARQUES, H.; PINO, G.; TENA, J.D.
Do happiness indexes truly reveal happiness? Measuring happiness using revealed preferences from migration flows, XXXVIII Simposio de la Asociación Española de Economía , SANTANDER, ESPAÑA, 2013.
- MARTIN, B.; CARRIZOSA, E.; MORALES, R.
Nested variable neighborhood search for classification and clustering, 26th European Conference on Operational Research, Roma, ITALIA, 2013.
- MARTIN, N.; ALONSO-REVENGA, J.M.
Adjustement of overdispersion models using loglinear models, 6th International Conference of ERCIM WG on Computational and Methodological Statistics (ERCIM 2013), Londres, REINO UNIDO, 2013.
- MEI, X.; DE MIGUEL, A.V.; NOGALES, F. J.
Size Matters: Multiperiod Portfolio Optimization with General Transaction Costs, INFORMS Annual Meeting, Minneapolis, ESTADOS UNIDOS DE AMERICA, 2013.

- MINGOTTI, N.; ROMO, J. ; LILLO, R. E.
Bootstrap random walk test for functional time series, Recent Developments for Bootstrap Methods in Time Series Data, *Copenhagen*, DINAMARCA, 2013.
- MINGOTTI, N.; ROMO, J. ; LILLO, R. E.
Selección de variables con LASSO en regresión funcional, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), *CASTELLON DE LA PLANA*, ESPAÑA, 2013.
- MOLINA, E. ; FLORES, R.J.; TEJADA, J.
Group power, centrality and social capital, 26th European conference on operational research EURO-INFORMS 2013, *Roma*, ITALIA, 2013.
- MOLINA, E. ; FLORES, R.J.; TEJADA, J.
Pyramidal values, 9th Spain-Italy-Netherlands Meeting on game theory (SING9), *VIGO*, ESPAÑA, 2013.
- MOLINA, I.; RAO, J.N.K.
Model-based estimation of poverty indicators for small areas: overview, The First Asian ISI Satellite Meeting on Small Area Estimation (SAE), *Bangkok*, TAILANDIA, 2013.
- MOLINA, I.; RAO, J.N.K.
A review of poverty mapping procedures, The 59th ISI World Statistics Congress, *Hong Kong*, CHINA, 2013.
- 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, 2014 Graybill/ENVR Conference. Modern Statistical Methods for Ecology, *Colorado*, ESTADOS UNIDOS DE AMERICA, 2013.
- NIÑO, J.
Continuous-state restless bandits, indexability, and infinite-dimensional linear programming, Congreso de la RSME 2013, *SANTIAGO DE COMPOSTELA*, ESPAÑA, 2013.
- PALOMAR, E.; ALCAIDE, A. ; MOLINA, E. ; ZHANG, Y.
Coalitional games for the management of anonymous access in online social networks; en: Eleventh Annual International Conference on Privacy, Security and Trust (PST), 2013, IEEE COMPUTER SOCIETY, , 2013.
- PARDO-FERNÁNDEZ, J.C.; MOLANES, E.M.; LETON, E.
Nonparametric inference for covariate adjusted summary indices of ROC curves, 29th European Meeting of Statisticians , *Budapest*, HUNGRÍA, 2013.
- PEÑA, D.
Factor models for multivariate time series analysis, Advances in Latent Variables: Methods, Models and Applications (SIS 2013 Statistical Conference), *Brescia*, ITALIA, 2013.
- PEÑA, D.
Dynamic principal components in time domain, Frontiers of Statistics and Forecasting Conference in Celebration of the 80th Birthday of George C. Tiao, *TAIWAN*, 2013.
- PINO, G.; TENA, J.D
Forecasting disaggregates by sectors and regions: the case of inflation in the euro area and Spain, XVI Applied Economics Meeting, *GRANADA*, ESPAÑA, 2013.

- RODRIGUEZ, J.V.; RAMÍREZ, J. ; LILLO, R. E.
Caracterización y estimación del proceso MAP no estacionario, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), CASTELLON DE LA PLANA, ESPAÑA, 2013.
- ROMO, J.
Bootstrap random walk tests for functional time series, Recent Developments for Bootstrap Methods in Time Series Data, *Copenhagen*, DINAMARCA, 2013.
- ROMO, J.
Robust analysis of high-dimensional data, 6th International Conference of the ERCIM WG on Computational and Methodological Statistics (ERCIM 2013)., *Londres*, REINO UNIDO, 2013.
- ROMO, J. ; LILLO, R. E. ; LANIADO, H.
Directional depth and extremality for multivariate observations, International Workshop on Multivariate Analysis and Random Matrices. New tendencies.
, Guanajuato, MEXICO, 2013.
- ROMO, J. ; LILLO, R. E. ; MINGOTTI, N.
Robust lasso variable selection for functional data, 6th International Conference of the ERCIM WG on Computational and Methodological Statistics (ERCIM 2013), *Londres*, REINO UNIDO, 2013.
- ROMO, J. ; LILLO, R. E. ; VALENCIA, D.J.
COMEDIAN para datos funcionales, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), CASTELLON DE LA PLANA, ESPAÑA, 2013.
- ROMO, J. ; MORENO, M.
Robust unit root tests with autoregressive innovations, International Conference on Robust Statistics (ICORS 2013), *San Petersburgo*, RUSIA, 2013.
- RUIZ, C.; KAZEMPOUR, S.J.; CONEJO, A.J.
Generation investment equilibria with strategic producers in an Electricity Pool: An EPEC Approach, Minneapolis 2013 : Informs Annual Meeting, *Minneapolis*, ESTADOS UNIDOS DE AMERICA, 2013.
- RUIZ, C.; OLIVEIRA, F.
Supply chain coordination under uncertainty in the electricity industry, Minneapolis 2013 : Informs Annual Meeting, *Minneapolis*, ESTADOS UNIDOS DE AMERICA, 2013.
- RUIZ, D.; David Delgado Gomez
Some index policies for stochastic machine maintenance problems with imperfect maintenance and performance shocks, ISORAP 2013, *Marrakech*, MARRUECOS, 2013.
- RUIZ, D.; David Delgado Gomez; ESCUDERO, L.
A stochastic mixed 0-1 formulation for the capacitated bank network restructuring model, OR55 Annual Conference, *Exeter*, REINO UNIDO, 2013.
- RUIZ, D.; David Delgado Gomez; ESCUDERO, L.
A stochastic mixed 0-1 formulation for the capacitated branch restructuring model, International Workshop on Locational Analysis and Related Problems : X Anniversary of the Spanish Location Network, *TORREMOLINOS*, ESPAÑA, 2013.
- RUIZ, D.; ESCUDERO, L.; David Delgado Gomez
A stochastic mixed 0-1 model for the capacitated branch restructuring problem with uncertainty, Euro Working Group on Locational Analysis (EWGLA XX), *Ankara*, TURQUIA, 2013.

- RUIZ, E.; FRESOLI, D.E.
The uncertainty of conditional correlations in DCC models, 7th CSDA International Conference on Computational and Financial Econometrics (CFE 2013), *Londres*, REINO UNIDO, 2013.
- RUIZ, E.; PONCELA, P.
Dynamic factor models, Conferencia Plenaria, Sociedad de Estadística de Portugal, *Aveiro*, PORTUGAL, 2013.
- TENA, J.D
Home advantage and the importance of an away goal in a two-legged knockout tournament, 5th ESEA Conference on Sport Economics, *Esbjerg*, DINAMARCA, 2013.
- VELILLA, S.
Reducción de la dimensión en clasificación con datos funcionales, XXXIV Congreso Nacional de Estadística e Investigación Operativa (SEIO 2013), *CASTELLON DE LA PLANA*, ESPAÑA, 2013.
- VELILLA, S.
Dimension reduction in functional data classification, JSM2013, *Montreal*, CANADA, 2013.
- VIRBICKAITE, A.; LOPES MOREIRA, M.H.; GALEANO, P. ; AUSIN, M. C.
Particle learning for bayesian non-parametric Markov switching stochastic volatility models with financial applications, 7th International Conference on Computational and Financial Econometrics (CFE 2013), *Londres*, REINO UNIDO, 2013.
- WIPER, M. P. ; AUSIN, M. C. ; CARNICERO, J.A.
Non-parametric copulas for circular-linear and circular-circular data: an application to wind directions, 6th International Conference of the ERCIM WG on Computational and Methodological Studies (ERCIM 2013), *Londres*, REINO UNIDO, 2013.
- WIPER, M. P. ; RAMÍREZ , P.; LILLO, R. E.
Bayesian analysis of the MAP_2/G/1 queueing system, 17th APS Informs 2013, *San Jose*, COSTA RICA, 2013.

Actividades de cooperación internacional

Acciones integradas y bilaterales

- GRANE, A.
Máster en Estadística: Fortalecimiento de las Matemáticas y Estadística en Mozambique, *Universidade Pedagógica*, MOZAMBIQUE. Duracion: de 2013 a 2013.
Descripción: Proyecto de cooperación al desarrollo de la Universidad Complutense de Madrid

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- **ANA ARRIBAS GIL**
Título: Estancias de investigación "Estimacion y clasificacion en modelos mixtos no-lineales semiparamétricos"
Centro Externo: Departamento de Estadística de la Universidad de Valparaíso
País: CHILE
Duración: 01/2013 a 01/2013.
- **ANA ARRIBAS GIL**
Título: Estancia de investigación "Dependencia especial para datos funcionales en el modelamiento de concentración de contaminantes"
Centro Externo: Departamento de Estadística de la North Carolina State University, USA
País: ESTADOS UNIDOS DE AMERICA
Duración: 09/2013 a 11/2013.
- **AUDRONE VIRBICKAITE**
Título: Estancia de investigación como visiting PhD student en la University of Chicago Booth School of Business
Centro Externo: University of Chicago Booth School of Business
País: ESTADOS UNIDOS DE AMERICA
Duración: 04/2013 a 07/2013.
- **BERNARDO D AURIA**
Título: Estancia en el Instituto de Ciencias Matemáticas (ICMAT) en Madrid, para iniciar una colaboración entre el Departamento de Estadística y el Centro ICMAT y crear un grupo de Probabilidad, Estadística e Investigación Operativa.
Centro Externo: Instituto de Ciencias Matemáticas (ICMAT), Madrid
País: ESPAÑA
Duración: 01/09/2013 a 31/01/2014.
- **BERNARDO D AURIA**
Título: Estancia de investigación en visita del profesor Mark Holme, Universidad de Auckland, Nueva Zelanda
Centro Externo: Universidad de Nueva Zelanda
País: NUEVA ZELANDA
Duración: 10/01/2013 a 26/01/2013.
- **CARLO SGUERA**
Título: Estancia de investigación en el Departamento de Bioestadística de la Columbia University, New York.
Centro Externo: Columbia University
País: ESTADOS UNIDOS DE AMERICA
Duración: 04/2013 a 06/2013.
- **ISABEL MOLINA PERALTA**
Título: Estancia de investigación "Estimación en áreas pequeñas"
Centro Externo: School of Mathematics and Statistics, Carleton University. Ottawa, Canada.
País: CANADA
Duración: 01/11/2013 a 01/12/2013.

- **JORGE EDUARDO GALAN CAMACHO**
Título: Estancia de investigación en Energy Policy Research Group-Judge Business School.
Centro Externo: University of Cambridge
País: REINO UNIDO
Duración: 09/2013 a 12/2013.
- **JOSE NIÑO MORA**
Título: Estancia de investigación en el MIT, Cambridge, MA . -EEUU
Centro Externo: MIT, Cambridge, MA
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/12/2013 a 31/12/2013.

Estancias de investigadores externos en la universidad

- **ESTHER RUIZ ORTEGA**
Título: Estancia Catedra de Excelencia del prof. Ruben Zamar en el Departamento de Estadística.
Investigador Externo: ZAMAR, R.
Centro Externo: Departamento de Estadística. Universidad Carlos III de Madrid
País: ESPAÑA
Duración: 10/2012 a 04/2013.