



## Profolio of Researchers and Research Teams

# MODELS OF OPTIMIZATION, DECISION, STATISTICS AND APPLICATIONS

(Last update 03/04/2013)

**Code:** GI-1914

**Department:** Estatística e Investigación Operativa

**Web:** [eio.usc.es/pub/GI1914](http://eio.usc.es/pub/GI1914)

**Contact:**

González Manteiga, Wenceslao

[wenceslao.gonzalez@usc.es](mailto:wenceslao.gonzalez@usc.es)

Telf. 981-563100 ext.13204

---

**Center of Innovation and Thecnology Transfer**

[cittinfo@usc.es](mailto:cittinfo@usc.es)

Telf.: 981-547000

### Research field

- Statistical Inference; Biostatistics; Geostatistics; Sampling and Resampling Techniques; Time series; Non-parametric inference; Categorical data; Censored and/or truncated data; Forecasting; Multivariate analysis
- Optimization techniques, Game Theory

### Technology services

- Data analysis and consulting; Forecasting; Spatial Statistics modelling; Statistical applications to industry; Financial modelling; Environmental Statistics; Biostatistics; Tourism Statistics

### Key words

Statistical Inference; Statistical Modelling; Forecasting; Biostatistics; Geostatistics; Statistical Maps

## Researchers

<b>Name</b>	<b>Position</b>
González Manteiga,W.	Coordinator
Alonso Meijide,J.M.	Member
Casas Méndez,B.V.	Member
Coladas Uría,L.	Member
Crujeiras Casais,R.M.	Member
Faraldo Roca,P.	Member
Febrero Bande,M.	Member
Fernández Fernández,M.Á.	Member
Fernández Sotelo,M.Á.	Member
González Díaz,J.	Member
Muñoz Ferreiro,M.d.	Member
Pateiro López,B.	Member
Prada Sánchez,J.M.	Member
Ramil Novo,L.A.	Member
Rodríguez Casal,A.	Member
Sánchez Sello,C.A.	Member
Conde Amboage,M.	IFP
García Portugués,E.	IFP
Martínez Calvo,A.	IFP
Saavedra Nieves,P.	IFP
Ameijeiras Alonso,J.	PA
Borrajo García,M.I.	PA
Ginzo Villamayor,M.J.	PA
González Rueda,Á.M.	PA
Oliveira Pérez,M.	PA
Oviedo de la Fuente,M.	PA
Pérez Fernández de Córdoba,M.	PA

### **External collaborators**

Jacobo de Uña Álvarez	Universidade de Vigo
Antonio Cuevas González	Univ. Autónoma de Madrid
Winfried Stute	Univ. de Giessen (Alemania)
María Luisa Carpena Rodríguez	Universidade da Coruña
María Gloria Fiestras Janeiro	Universidade de Vigo
María Estela Sánchez Rodríguez	Universidade de Vigo
Silvia María Lorenzo Freire	Universidade de Vigo
Ignacio García Jurado	Universidade da Coruña
María José Lombardía Cortiña	Universidade da Coruña
Pedro Galeano San Miguel	Universidad Carlos III de Madrid
María Castellano Méndez	Instituto de Estudios Turísticos
Mikel Alvarez Mozos	Universidad de Barcelona

## RTD PROJECTS ( period: 2009 - 2013 )

### **Title:**

Developing crucial Statistical methods for Understanding major complex Dynamic Systems in natural, biomedical and social sciences (StUDyS)

**Tipology:** (PI) Programas Internacionais

**Duration:** 01/10/2012 - 31/12/2017

**Main investigator:** González Manteiga, Wenceslao

### **Title:**

Deseño de algoritmos para problemas de programación enteira e non linear (Proxectos de Grupos Emerxentes)

**Tipology:** (PG) Plan Galego  
**Duration:** 26/06/2012 - 25/06/2015  
**Main investigator:** González Díaz, Julio

---

**Title:**  
Teoría de juegos y aplicaciones en ciencias sociales (subproyecto).  
**Tipology:** Plan Nacional  
**Duration:** 01/01/2012 - 31/12/2014  
**Main investigator:** Alonso Meijide, José María

---

**Title:**  
Modelos de inferencia non paramétrica para indicadores medioambientais.  
**Tipology:** Proxectos Xunta  
**Duration:** 08/08/2010 - 30/09/2013  
**Main investigator:** González Manteiga, Wenceslao

---

**Title:**  
METMAV. International Workshop on Spatio-Temporal Modelling  
**Tipology:** Accións complementarias  
**Duration:** 22/03/2010 - 21/03/2011  
**Main investigator:** González Manteiga, Wenceslao

---

**Title:**  
Contribucións á teoría de xogos  
**Tipology:** Proxectos Xunta  
**Duration:** 13/07/2009 - 01/12/2012  
**Main investigator:** Casas Méndez, Balbina Virginia

---

### Technological customers and partners

- Aplicaciones Topográficas y Cartográficas
- APPLUS NORCONTROL, S.L.U.
- Axencia para a Calidade do Sistema Universitario de Galicia
- Cinfo, Contenidos Informativos Personalizados, S.L.U.
- Consorcio Axencia Para a Calidade do Sistema Universitario de Galicia
- ENDESA
- ENDESA Servicios, S.L.
- Financiera Maderera S.A. FINSA
- Forga
- Instituto Galego de Estatística
- Novotec Consultores, S.A.
- TurGalicia, S.A.

### SCIENTIFIC PRODUCTION ( period: 2007 - 2011 )

#### Articles in scientific journals

**Article:**  
Iodine nutrition in the adult population of Galicia (Spain)  
**Journal:** THYROID, ISSN: 1050-7256  
2007

---

**Article:**  
Prevalence, awareness, treatment and control of hypertension in Galicia (Spain), and association with related diseases

**Journal:** JOURNAL OF HUMAN HYPERTENSION, ISSN: 0950-9240  
2007

---

**Article:**

Characterizations of the Deegan-Packel and Johnston power indices

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-2217  
2007

---

**Article:**

Covariance changes detection in multivariate time series

**Journal:** JOURNAL OF STATISTICAL PLANNING AND INFERENCE, ISSN: 0378-3758  
2007

---

**Article:**

Bayesian estimation of the Gaussian mixture GARCH model

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Nonparametric estimation from length-biased data under competing risks

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Balanced contributions for TU games with awards and applications

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-2217  
2007

---

**Article:**

A nonparametric approach to the estimation of lengths and surface areas

**Journal:** ANNALES DE L'INSTITUT HENRI POINCARÉ-PROBABILITÉS ET STATISTIQUES, ISSN: 0090-5364  
2007

---

**Article:**

Improved model selection criteria for SETAR time series models

**Journal:** JOURNAL OF STATISTICAL PLANNING AND INFERENCE, ISSN: 0378-3758  
2007

---

**Article:**

Set estimation under convexity type assumptions

**Journal:** ANNALES DE L'INSTITUT HENRI POINCARÉ-PROBABILITÉS ET STATISTIQUES, ISSN: 0246-0203  
2007

---

**Article:**

The use of cumulative sums for detection of changepoints in the rate parameter of a Poisson Process

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

On the connection between model selection criteria and quadratic discrimination in ARMA time series models

**Journal:** STATISTICS & PROBABILITY LETTERS, ISSN: 0167-7152

2007

---

**Article:**

A functional analysis of NOx levels: location and scale estimation and outlier detection

**Journal:** COMPUTATIONAL STATISTICS, ISSN: 0943-4062

2007

---

**Article:**

A solution for bargaining problems with coalition structure

**Journal:** MATHEMATICAL SOCIAL SCIENCES, ISSN: 0165-4896

2007

---

**Article:**

Axiomatic characterization of the symmetric coalitional binomial semivalues

**Journal:** DISCRETE APPLIED MATHEMATICS, ISSN: 0166-218X

2007

---

**Article:**

A comparative axiomatic characterization of the Banzhaf-Owen coalitional value

**Journal:** DECISION SUPPORT SYSTEMS, ISSN: 0167-9236

2007

---

**Article:**

Iodine nutrition in the adult population of Galicia (Spain)

**Journal:** THYROID, ISSN: 1050-7256

2007

---

**Article:**

Unilateral posterior crossbite and mastication

**Journal:** ARCHIVES OF ORAL BIOLOGY, ISSN: 0003-9969

2007

---

**Article:**

Prevalence, awareness, treatment and control of hypertension in Galicia (Spain), and association with related diseases

**Journal:** JOURNAL OF HUMAN HYPERTENSION, ISSN: 0950-9240

2007

---

**Article:**

tdc.msm: An R library for the analysis of multi.state survival data

**Journal:** COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, ISSN: 0169-2607

2007

---

**Article:**

Robust estimation and classification for functional data via projection-based depth notions

**Journal:** COMPUTATIONAL STATISTICS, ISSN: 0943-4062

2007

---

**Article:**

Comparing spatial dependence structures using spectral density estimators

**Journal:** ENVIRONMETRICS, ISSN: 1180-4009

2007

---

**Article:**

Bootstrap tests for nonparametric comparison of regression curves with dependent errors

**Journal:** TEST, ISSN: 1133-0686  
2007

---

**Article:**

Editorial-introduction to the special issue on Statistics for functional data

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Testing for the equality of k regression curves

**Journal:** STATISTICA SINICA, ISSN: 1017-0405  
2007

---

**Article:**

Estimation of the mean squared error of predictors of small area linear parameters under a logistic mixed model

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Bootstrap mean squared error of a small area EBLUP

**Journal:** JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, ISSN: 0094-9655  
2007

---

**Article:**

Estimation of unemployment rates in small areas by a multinomial logit mixed model

**Journal:** JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY, ISSN: 0964-19  
2007

---

**Article:**

Selection of variables using factorial discriminant analysis for the state identification of an anaerobic UASB-UAB hybrid pilot plant, fed with winery effluents

**Journal:** WATER SCIENCE AND TECHNOLOGY, ISSN: 0273-1223  
2007

---

**Article:**

Assessing continuous bivariate effects among different groups through nonparametric regression models. Application to breast cancer detection

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Nonparametric estimation of conditional ROC curves: application to a computer-aided diagnosis system to discriminate between lesion and non-lesion regions

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2007

---

**Article:**

Goodness-of-fit tests for parametric models in censored regression

**Journal:** CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE, ISSN: 0319-5724  
2007

---

**Article:**

Small area estimates of labour force participation under a multinomial logit mixed model

**Journal:** JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY, ISSN: 0964-192007

---

**Article:**

A chlorhexidine mouthwash reduces the risk of post-extraction bacteraemia

**Journal:** INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY, ISSN: 0899-823X2007

---

**Article:**

Unilateral posterior crossbite and mastication

**Journal:** ARCHIVES OF ORAL BIOLOGY, ISSN: 0003-99692007

---

**Article:**

A flexible method to measure synchrony in neuronal firing

**Journal:** JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION, ISSN: 0162-14592008

---

**Article:**

Computing power indices: multilinear extensions and new characterizations

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-22172008

---

**Article:**

Cooperation in markovian queueing models

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-22172008

---

**Article:**

A kernel variogram estimator for clustered data

**Journal:** SCANDINAVIAN JOURNAL OF STATISTICS, ISSN: 0303-68982008

---

**Article:**

A note on coalitional manipulation and centralized inventory management

**Journal:** ANNALS OF OPERATIONS RESEARCH, ISSN: 0254-53302008

---

**Article:**

Outlier detection in functional data by depth measures with application to identify abnormal NOx levels

**Journal:** ENVIRONMETRICS, ISSN: 1180-40092008

---

**Article:**

Boosting for real and functional samples. An application to an environmental problem

**Journal:** STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, ISSN: 1436-32402008

---

**Article:**

A bootstrap local bandwidth selector for additive models

**Journal:** JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS, ISSN: 1061-8600  
2008

---

**Article:**

Goodness-of-fit tests for conditional models under censoring and truncation

**Journal:** JOURNAL OF ECONOMETRICS, ISSN: 0304-4076  
2008

---

**Article:**

Characterizing cautious choice

**Journal:** MATHEMATICAL SOCIAL SCIENCES, ISSN: 0165-4896  
2008

---

**Article:**

Assessing continuous bivariate effects among different groups through nonparametric regression models. Application to breast cancer detection

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2008

---

**Article:**

Nonparametric estimation of conditional ROC curves: Application to discrimination tasks in computerized detection of early breast cancer

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2008

---

**Article:**

Coalitional interval games for strategic games in which players cooperate

**Journal:** THEORY AND DECISION, ISSN: 0040-5833  
2008

---

**Article:**

Semiparametric inference in generalized mixed effects models

**Journal:** JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY, ISSN: 1360-7559  
2008

---

**Article:**

Comments on: Augmenting the bootstrap to analysis high dimensional genomic data

**Journal:** TEST, ISSN: 1133-0686  
2008

---

**Article:**

Length and surface area estimation under smoothness restrictions

**Journal:** ADVANCES IN APPLIED PROBABILITY, ISSN: 0001-8678  
2008

---

**Article:**

An L2-test for comparing spatial spectral densities

**Journal:** STATISTICS & PROBABILITY LETTERS, ISSN: 0167-7152  
2008

---

**Article:**

Categorical variables, Interactions and Generalized additive models, Applications in computer-aided diagnosis systems



**Journal:** COMPUTERS IN BIOLOGY AND MEDICINE, ISSN: 0010-4825  
2008

---

**Article:**

Emergence of asiatic vibrio diseases in South America in phase with El Niño

**Journal:** EPIDEMIOLOGY, ISSN: 1044-3983  
2008

---

**Article:**

Flexible regression models for estimating postmortem interval (PMI) in forensic medicine

**Journal:** STATISTICS IN MEDICINE, ISSN: 0277-6715  
2008

---

**Article:**

Sizer map for inference with additive models

**Journal:** STATISTICS AND COMPUTING, ISSN: 0960-3174  
2008

---

**Article:**

Nonparametric functional data analysis: theory and practice

**Journal:** COMPUTATIONAL STATISTICS, ISSN: 0943-4062  
2008

---

**Article:**

Analytic and bootstrap approximations of prediction errors under a multivariate Fay-Herriot model

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2008

---

**Article:**

Preparatory studies for the implementation of the Norm UNE 66020-1:2001 (or Norm ISO 2859-1:1999) in a Canned Marine Food Factory

**Journal:** JOURNAL OF FOOD PROCESSING AND PRESERVATION, ISSN: 0145-8892  
2008

---

**Article:**

Midline shift and lateral guidance angle in adults with unilateral posterior crossbite

**Journal:** AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, ISSN: 0889-5406  
2008

---

**Article:**

Inference in the progressive tree-state model

**Journal:** MATHEMATICAL MODELS & METHODS IN APPLIED SCIENCES, ISSN: 0218-2025  
2008

---

**Article:**

Assessing continuous bivariate effects among different groups through nonparametric regression models. Application to breast cancer detection

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2008

---

**Article:**

Categorical variables, interactions and generalized additive models. Applications in computer-aided diagnosis systems

**Journal:** COMPUTERS IN BIOLOGY AND MEDICINE, ISSN: 0010-4825  
2008

---

**Article:**

Emergence of Asiatic Vibrio diseases in South America in phase with El Niño

**Journal:** EPIDEMIOLOGY, ISSN: 1044-3983  
2008

---

**Article:**

Preparatory studies for the implementation of norm UNE 66020-1:2001 (or norm ISO 2859-1:1999) in a canned marine food factory

**Journal:** JOURNAL OF FOOD PROCESSING AND PRESERVATION, ISSN: 0145-8892  
2008

---

**Article:**

Emergence of Asiatic Vibrio Diseases in South America in Phase With El Niño

**Journal:** EPIDEMIOLOGY, ISSN: 1044-3983  
2008

---

**Article:**

Speech and swallowing impairment after treatment for oral and oropharyngeal cancer

**Journal:** ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY, ISSN: 0886-4470  
2008

---

**Article:**

Midline Shift and lateral guidance angle in adults with unilateral posterior crossbite

**Journal:** AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, ISSN: 0889-5406  
2008

---

**Article:**

Comments on: Transversality of the Shapley value

**Journal:** Top, ISSN: 1134-5764  
2008

---

**Article:**

Weighted multiple majority games with unions generating functions and applications to the European Union

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-2217  
2009

---

**Article:**

On the second order properties of the multidimensional periodogram for regularity spaced data

**Journal:** THEORY OF PROBABILITY AND ITS APPLICATIONS, ISSN: 0040-585X  
2009

---

**Article:**

Evaluating the ability of tree-Based methods and logistic regression for the detection of SNP-SNP interaction

**Journal:** ANNALS OF HUMAN GENETICS, ISSN: 0003-4800  
2009

---

**Article:**

The action of pulse-modulated GSM radiation increases regional changes in brain activity and c-Fos expression in cortical and subcortical areas in a rat model of picrotoxin-induced seizure-proneness

**Journal:** JOURNAL OF NEUROSCIENCE RESEARCH, ISSN: 0360-4012  
2009

---

**Article:**

Prevalence of metabolic syndrome in Galicia (NW Spain) on four alternative definitions and association with insulin resistance

**Journal:** JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, ISSN: 0391-4097  
2009

---

**Article:**

Characteristics and dynamics of salmonella contamination along the coast of Agadir, Morocco

**Journal:** APPLIED AND ENVIRONMENTAL MICROBIOLOGY, ISSN: 0099-2240  
2009

---

**Article:**

Application of penalized smoothing splines in analyzing neuronal data

**Journal:** BIOMETRICAL JOURNAL, ISSN: 0323-3847  
2009

---

**Article:**

Selecting variables in non-parametric regression models for binary response. An application to the computerized detection of breast cancer

**Journal:** STATISTICS IN MEDICINE, ISSN: 0277-6715  
2009

---

**Article:**

Multi-state models for the analysis of time to event data

**Journal:** STATISTICAL METHODS IN MEDICAL RESEARCH, ISSN: 0962-2802  
2009

---

**Article:**

Distance of the contact glide in the closing masticatory stroke during mastication of three types of food

**Journal:** JOURNAL OF ORAL REHABILITATION, ISSN: 0305-182X  
2009

---

**Article:**

Study of eating habits, lifestyle and exposure to risk factors of breast cancer survivor

**Journal:** ANNALS OF NUTRITION AND METABOLISM, ISSN: 0250-6807  
2009

---

**Article:**

Values of games with graph restricted communication and a priori unions

**Journal:** MATHEMATICAL SOCIAL SCIENCES, ISSN: 0165-4896  
2009

---

**Article:**

Monotonocity of power in games with a priori unions

**Journal:** THEORY AND DECISION, ISSN: 0040-5833  
2009

---

**Article:**

Freedom of choice and weighted monotonicity of power

**Journal:** Metroeconomica, ISSN: 0026-1386  
2009

---

**Article:**

Robust nonparametric estimation with missing data

**Journal:** JOURNAL OF STATISTICAL PLANNING AND INFERENCE, ISSN: 0378-3758  
2009

---

**Article:**

Asymptotic properties of local polynomial regression with missing data and correlated errors

**Journal:** ANNALS OF THE INSTITUTE OF STATISTICAL MATHEMATICS, ISSN: 0020-3157  
2009

---

**Article:**

Identification of NOx and Ozone Episodes and Estimation of Ozone by Statistical Analysis

**Journal:** WATER AIR AND SOIL POLLUTION, ISSN: 0049-6979  
2009

---

**Article:**

PMICALC: An R code-based software for estimating postmortem interval (PMI) compatible with Windows, Mac and Linux operating systems

**Journal:** FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738  
2009

---

**Article:**

Changes in EMG activity during clenching in chronic pain patients with unilateral temporomandibular disorders.

**Journal:** JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, ISSN: 1050-6411  
2009

---

**Article:**

Towards an axiomatization of the core-center

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-2217  
2009

---

**Article:**

Surface area estimation under convexity type assumptions

**Journal:** JOURNAL OF NONPARAMETRIC STATISTICS, ISSN: 1048-5252  
2009

---

**Article:**

Factors influencing the case fatality rate of Legionnaire's disease

**Journal:** INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASE, ISSN: 1027-3719  
2009

---

**Article:**

Mumps: a year of enhanced surveillance in Catalonia

**Journal:** VACCINE, ISSN: 0264-410X  
2009

---

**Article:**

Evaluación del impacto de los programas de vacunación masiva: la experiencia de la hepatitis A en Cataluña

**Journal:** Revista Espanola de Salud Publica, ISSN: 1135-5727  
2009

---

**Article:**

Admission and fasting plasma glucose for estimating risk of death of diabetic and nondiabetic patients with acute coronary syndrome: nonlinearity of hazard ratios and time-dependent comparison.

**Journal:** AMERICAN HEART JOURNAL, ISSN: 0002-8703  
2009

---

**Article:**

Las elecciones generales de 2008 y el juego del parlamento

**Journal:** SUMA: REVISTA SOBRE a ENSEÑANZA e APRENDIZAJE daS MATEMÁTICAS, ISSN: 1130-488X  
2010

---

**Article:**

A new power index based on minimal winning coalitions without any surplus

**Journal:** DECISION SUPPORT SYSTEMS, ISSN: 0167-9236  
2010

---

**Article:**

Axiomatizations of public good indices with a priori unions

**Journal:** SOCIAL CHOICE AND WELFARE, ISSN: 0176-1714  
2010

---

**Article:**

Two variations of the public good index for simple games with a priori unions

**Journal:** CONTROL AND CYBERNETICS, ISSN: 0324-8569  
2010

---

**Article:**

Agronomic characterisation of different types of sewage sludge: Policy implications

**Journal:** WASTE MANAGEMENT, ISSN: 0956-053X  
2010

---

**Article:**

A model and two heuristic approaches for a forage harvester planning problem: a case study

**Journal:** Top, ISSN: 1134-5764  
2010

---

**Article:**

The two-stage constrained equal awards and losses rules for multi-issue allocation situations

**Journal:** Top, ISSN: 1134-5764  
2010

---

**Article:**

The truncated core for games with upper bounds

**Journal:** INTERNATIONAL JOURNAL OF GAME THEORY, ISSN: 0020-7276  
2010

---

**Article:**

On the estimation fo the spectral density for continuous spatial processes

**Journal:** STATISTICS, ISSN: 0233-1888

2010

---

**Article:**

DTDA, an R package to analyze randomly truncated data

**Journal:** Journal of Statistical Software, ISSN: 1548-7660  
2010

---

**Article:**

Goodness-of-fit tests for the spatial spectral density

**Journal:** STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, ISSN: 1436-3240  
2010

---

**Article:**

Nonparametrics test for separability of spatio-temporal processes

**Journal:** ENVIRONMETRICS, ISSN: 1180-4009  
2010

---

**Article:**

Least squares estimation on nonlinear spatial trends

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2010

---

**Article:**

Spatial dependence estimation using FFT of biased covariances

**Journal:** JOURNAL OF STATISTICAL PLANNING AND INFERENCE, ISSN: 0378-3758  
2010

---

**Article:**

Comments on: A general science-based framework for nonlinear spatio-temporal dynamical models

**Journal:** TEST, ISSN: 1133-0686  
2010

---

**Article:**

Characterizations of  $r$ -Convex Functions

**Journal:** JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, ISSN: 0022-3239  
2010

---

**Article:**

Boosting GARCH and neural networks for the prediction of heteroskedastic time series

**Journal:** MATHEMATICAL AND COMPUTER MODELLING, ISSN: 0895-7177  
2010

---

**Article:**

Measures of influence for the functional linear model with scalar response

**Journal:** JOURNAL OF MULTIVARIATE ANALYSIS, ISSN: 0047-259X  
2010

---

**Article:**

Comments on: Dynamic relations for sparsely sampled Gaussia processes

**Journal:** TEST, ISSN: 1133-0686  
2010

---

**Article:**

Partially linear support vector machines applied to the prediction of mine slope movements

**Journal:** MATHEMATICAL AND COMPUTER MODELLING, ISSN: 0895-7177  
2010

---

**Article:**

Lasso logistic regression, Gsoft and the Cyclic coordinate descent algorithm

**Journal:** Statistical Applications in Genetics and Molecular Biology, ISSN: 1544-6115  
2010

---

**Article:**

Small area estimation under Fay-Herriot models with nonparametric estimation of heteroscedasticity

**Journal:** STATISTICAL MODELLING, ISSN: 1471-082X  
2010

---

**Article:**

Estimation of the marginal location under a partially linear model with missing responses

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2010

---

**Article:**

Nonparametric variance function estimation with missing data

**Journal:** JOURNAL OF MULTIVARIATE ANALYSIS, ISSN: 0047-259X  
2010

---

**Article:**

A simple multiway ANOVA for functional data

**Journal:** TEST, ISSN: 1133-0686  
2010

---

**Article:**

Generalizing the Convex Hull of a Sample: The R Package alphahull

**Journal:** Journal of Statistical Software, ISSN: 1548-7660  
2010

---

**Article:**

Nonlinear wavelet estimator of the regression function under left truncated dependent data

**Journal:** JOURNAL OF NONPARAMETRIC STATISTICS, ISSN: 1048-5252  
2010

---

**Article:**

A note on the universal consistency of the kernel distribution function estimator

**Journal:** STATISTICS & PROBABILITY LETTERS, ISSN: 0167-7152  
2010

---

**Article:**

Influence of socioeconomic status on community-acquired pneumonia outcomes in elderly patients requiring hospitalization: a multicenter observational study

**Journal:** BMC PUBLIC HEALTH, ISSN: 1471-2458  
2010

---

**Article:**

Flexible Hazard ratio curves for continuous predictors in multi-state models: Application to breast cancer data

**Journal:** STATISTICAL MODELLING, ISSN: 1471-082X  
2010

---

**Article:**

PMICALC: An R code-based software for estimating postmortem interval (PMI) compatible with Windows, Mac and Linus operating systems

**Journal:** FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738  
2010

---

**Article:**

Modelling spatial patterns of distribution and abundance os mussel seed using structured additive regression models

**Journal:** SORT-Statistics and Operations Research Transactions, ISSN: 1696-2281  
2010

---

**Article:**

The application of receiver operating characteristic (ROC) methodology in biological studies of marine resources: sex determination of *Paracentrotus lividus* (Lamarck, 1816)

**Journal:** SORT-Statistics and Operations Research Transactions, ISSN: 1696-2281  
2010

---

**Article:**

ROC curve and covariates: extending the induced methodology to the non-parametric framework

**Journal:** STATISTICS AND COMPUTING, ISSN: 0960-3174  
2010

---

**Article:**

Risk factors associated with the development of ischemic colitis

**Journal:** WORLD JOURNAL OF GASTROENTEROLOGY, ISSN: 1007-9327  
2010

---

**Article:**

Application of receiver operating characteristic (ROC) methodology in biological studies on marine resources: sex determination of *Paracentrotus lividus* (Lamarck, 1816)

**Journal:** SORT-Statistics and Operations Research Transactions, ISSN: 1696-2281  
2010

---

**Article:**

Quantification of pericaudal adipocyte diameter in dairy cattle during peripartum: a complementary method to study energetic status using conventional histology

**Journal:** JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION, ISSN: 0931-2439  
2011

---

**Article:**

The Deegan-Packel index for simple games with a priori unions

**Journal:** QUALITY & QUANTITY, ISSN: 0033-5177  
2011

---

**Article:**

Two new power indices based on winning coalitions

**Journal:** JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, ISSN: 1023-6198  
2011

---



**Article:**

ROC curves in nonparametric location-scale regression models

**Journal:** SCANDINAVIAN JOURNAL OF STATISTICS, ISSN: 0303-6898  
2011

---

**Article:**

Applying a simulation model to manage waiting lists for hospital inpatient activity in an EU region

**Journal:** MATHEMATICAL AND COMPUTER MODELLING, ISSN: 0895-7177  
2011

---

**Article:**

Bootstrap in functional linear regression

**Journal:** JOURNAL OF STATISTICAL PLANNING AND INFERENCE, ISSN: 0378-3758  
2011

---

**Article:**

Estimating hospital production functions through flexible

**Journal:** MATHEMATICAL AND COMPUTER MODELLING, ISSN: 0895-7177  
2011

---

**Article:**

The proportional coalitional Shapley value

**Journal:** EXPERT SYSTEMS WITH APPLICATIONS, ISSN: 0957-4174  
2011

---

**Article:**

Minimum contrast parameter estimation for fractal random fields based on the wavelet periodogram

**Journal:** COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, ISSN: 0361-0926  
2011

---

**Article:**

Assessing neural activity related to decision-making through flexible odds ratio curves and their derivatives

**Journal:** STATISTICS IN MEDICINE, ISSN: 0277-6715  
2011

---

**Article:**

Parallel characterizations of a generalized Shapley value and a generalized Banzhaf value for cooperative games with levels structure of cooperation

**Journal:** DECISION SUPPORT SYSTEMS, ISSN: 0167-9236  
2011

---

**Article:**

A study of neurotoxic biomarkers, c-fos and GFAP after acute exposure to GSM radiation at 900 MHz in the picrotoxin model of rat brains

**Journal:** NEUROTOXICOLOGY, ISSN: 0161-813X  
2011

---

**Article:**

Weighted Bankruptcy Rules and the Museum Pass Problem

**Journal:** EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, ISSN: 0377-2217  
2011

---

**Article:**

Goodness of test for interest rate models: An approach based on empirical processes

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2011

---

**Article:**

A new flexible direct ROC regression model - Application to the detection of cardiovascular risk factors by anthropometric measures

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2011

---

**Article:**

Discussion on 'An explicit link between Gaussian fields and Gaussian Markov random fields: the SPDE approach'

**Journal:** JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY, ISSN: 13  
2011

---

**Article:**

Reliability of squat and countermovement jump tests in children 6-8 year of age

**Journal:** PEDIATRIC EXERCISE SCIENCE, ISSN: 0899-8493  
2011

---

**Article:**

Effects of growth hormone (GH) replacement and cognitive rehabilitation in patients with cognitive disorders after traumatic brain injury

**Journal:** BRAIN INJURY, ISSN: 0269-9052  
2011

---

**Article:**

Maxillary changes and occlusal traits in crania with artificial fronto-occipital deformation

**Journal:** AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, ISSN: 0002-9483  
2011

---

**Article:**

A paralleling technique modification to determinate the bone crest level around dental implants

**Journal:** DENTOMAXILLOFACIAL RADIOLOGY, ISSN: 0250-832X  
2011

---

**Article:**

Comparative study of ROC regression techniques. Applications for computer-aided diagnostic system in breast cancer detection

**Journal:** COMPUTATIONAL STATISTICS & DATA ANALYSIS, ISSN: 0167-9473  
2011

---

**Article:**

The free software in medical research

**Journal:** MEDICINA CLINICA, ISSN: 0025-7753  
2011

---

**Article:**

ROC curve and covariates: extending the induced methodology to the non-parametric framework

**Journal:** STATISTICS AND COMPUTING, ISSN: 0960-3174  
2011

---

**Article:**

Insulin resistance index (HOMA-IR) levels in a general adult population: curves percentile by gender and age. The EPIRCE study.

**Journal:** DIABETES RESEARCH AND CLINICAL PRACTICE, ISSN: 0168-8227  
2011

---

**Book:**

**Title:**

INFORME DE CONXUNTURA DE ECONOMIA GALEGA  
(C-655-98) Publicación: 2007

**Editorial:**CIEF

---

**Title:**

Accedendo ao mercado laboral. Un estudo por titulacións  
(978-84-691-5041-2) Publicación: 2008

**Editorial:**Gralisant, S.L.

---

**Title:**

Estudo da inserción laboral dos titulados no Sistema Universitario de Galicia 2003-05  
(978-84-691-5039-9) Publicación: 2008

**Editorial:**ACSUG

---

**Title:**

An introductory course on mathematical game theory  
(978-0-8218-5151-7) Publicación: 2010

**Editorial:**American Mathematical Society

---

**Chapter:**

**Title:**

The public good index when some voters are incompatible

**Book:**

Power Measures IV

(978-3-89265-0)Publicación: 2007

**Editorial:**Accedo Verlagsgesellschaft

---

**Title:**

Bootstrap methods for testing interactions in GAMs

**Book:**

Statistical methods for biostatistics and related fields

(978-3-540-32690-8)Publicación: 2007

**Editorial:**Springer

---

**Title:**

A review on goodness-of-fit tests for regression models

**Book:**

Monografías del Seminario Matemático

(978-84-92521-18-0)Publicación: 2008

**Editorial:**Servicio de Publicaciones. Universidad de Zaragoza

---

**Title:**

Innovación docente en Bioestadística para a adquisición de competencias

**Book:**

A innovación educativa na Universidade de Santiago de Compostela. Mellora da Calidade Docente (2004-2007)

(978-84-9887-035-0)Publicación: 2008

**Editorial:**Servizo de Publicacións e Intercambio Científico.

---

**Title:**

Gradient Boosting GARCH and Neural Networks for Time Series Prediction

**Book:**

Studies in Computational Intelligence

(978-3-540-78980-2)Publicación: 2008

**Editorial:**Springer

---

**Title:**

Influence in the functional linear model with scalar response

**Book:**

Functional and Operatorial Statistics

(978-3-7908-2061-4)Publicación: 2008

**Editorial:**Springer Verlag

---

**Title:**

Resampling and testing in regression models with environmetrical applications

**Book:**

Comprehensive Chemometrics

(9-780-444-527-028)Publicación: 2009

**Editorial:**Elsevier Science

---

**Title:**

Bootstrap Methods

**Book:**

International Encyclopedia of Statistical Science

(978-3-642-04897-5)Publicación: 2010

**Editorial:**Springer

---

**Title:**

Functional Quantiles

**Book:**

Recent Advances in Functional Data Analysis and Related Topics

(978-3-7908-2735-4)Publicación: 2011

**Editorial:**Physica Verlag (Springer)

---

**Title:**

A new power index for spatial games

**Book:**

Modern Mathematical Tools and Tecniques in Capturing Complexity

(978-3-642-20852-2)Publicación: 2011

**Editorial:**Physica Verlag (Springer)

---

**Title:**

Power indices applied to the Portuguese Parliament

**Book:**

Dynamics, Games, and Science II

(978-3-642-14787-6)Publicación: 2011

**Editorial:**Springer

---

**Title:**

Bootstrap methods

**Book:**

International Encyclopedia of Statistica Science

(978-3-642-04897-5)Publicación: 2011

**Editorial:**Springer

---

**Title:**

A general view of the goodness-of-fit tests for statistical models

**Book:**

Modern Mathematical Tools and Techniques in Capturing Complexity

(978-3-642-20852-2)Publicación: 2011

**Editorial:**Springer

---

**Title:**

Wavelet-based minimum contrast estimation of linear Gaussian random fields

**Book:**

Recent Advances in Functional Data Analysis and Realted Topics

(978-3-7908-2735-4)Publicación: 2011

**Editorial:**Springer

---

**Title:**

A derivative for Semi-preinvex Functions and its Applications in Semi-preinvex Programming

**Book:**

Topics in Nonconvex Optimization. Theory and Applications

(978-1-4419-9639-8)Publicación: 2011

**Editorial:**Springer

---

**Title:**

Recent advances on Functional Additive Regression

**Book:**

Recent Advances in Functional Data Analysis and Realted Topics

(978-3-7908-2735-4)Publicación: 2011

**Editorial:**Springer

---

**Title:**

Generalized Additive Models for Functional Data

**Book:**

Recent Advances in Functional Data Analysis and Related Topics

(978-3-7908-2735-4)Publicación: 2011

**Editorial:**Springer

---

**Doctoral theses:**

**Title:**

Contributions to spectral spatial statistics

**Date of dissertation:** 26/01/2007

**Director:** Wenceslao González Manteiga, Rubén Fernández Casal

**Author:** Rosa María Crujeiras Casais

---

**Title:**

Essays on operations research games and cautious behavior

**Date of dissertation:** 02/02/2007

**Director:** Ignacio García Jurado, GLORIA FIESTRAS JANEIRO

**Author:** Manuel Alfredo Mosquera Rodríguez

---

**Title:**

Set estimation under convexity type restrictions

**Date of dissertation:** 01/09/2008

**Director:** Alberto Rodríguez Casal, Wenceslao González Manteiga

**Author:** Beatriz Pateiro López

---

**Title:**

Análisis de la utilización de antibióticos en la profilaxis de la infección perinatal. Implicaciones en el ámbito hospitalario

**Date of dissertation:** 18/02/2008

**Director:** María Isabel Cadavid Torres, Jose Ramon Lorenzo, Carmen María Cadarso Suárez

**Author:** Iria Blanco Barca

---

**Title:**

Inferencia no paramétrica para a clasificación e asociación en problemas xenómicos con datos de alta dimensión

**Date of dissertation:** 29/01/2010

**Director:** Wenceslao González Manteiga, Antonio Salas Ellacuriaga, Cao Abad, Ricardo J.

**Author:** Manuel García Magariños

---

**Title:**

Modelización estadística con redes neuronales. Aplicaciones a la hidrología, aerobiología y modelización de procesos

**Date of dissertation:** 26/03/2010

**Director:** Wenceslao González Manteiga

**Author:** María Castellano Méndez

---

**Title:**

Curvas ROC e covariables: novas contribucións en inferencia estatística, desenvolvementos computacionais e aplicacións biomédicas

**Date of dissertation:** 14/01/2011

**Director:** Carmen María Cadarso Suárez, Javier Roca Pardiñas

**Author:** María José Rodríguez Álvarez

---

**Title:**

Tests de Bondade de Axuste para Modelos de Tipos de Interese: Un Enfoque baseado en Procesos Empíricos

**Date of dissertation:** 16/09/2011

**Director:** Manuel Febrero Bande, Wenceslao González Manteiga

**Author:** Abelardo Enrique Monsalve Cobis

---

**Title:**

Análisis de la eficacia en la intervención de socorrista acuático profesional

**Date of dissertation:** 27/04/2011

**Director:** Xosé Luís Otero Cepeda, Roberto J. Barcala Furelos, José Palacios Aguilar

**Author:** Antonio Bores Cerezal

---