Schedule ↪

8:30 AM

REGISTRATION   8:30 AM - 6:30 PM

8:45 AM

OPENING XIII CONFERENCE ON PUBLIC STATISTICS   **Auditorium**
                                                       8:45 AM - 9:00 AM

9:00 AM

PUBLIC STATISTICS PLENARY - Dennis Ramondt   **Auditorium**
1 papers | Chairperson: Miguel Angel Martinez Vidal   9:00 AM - 10:10 AM

Input privacy, opportunities to utilize new sources and an important element for a data-driven society (/en/papers/2407/conferencia-inaugural-xiii-jornadas-de-estadistica-publica)
D. Ramondt

10:10 AM

Invited Session Math-In. Industrial Applications at CITMAga   **Auditorium**
5 papers | Chairperson: Javier Roca Pardiñas   10:10 AM - 11:30 AM

La intervención de los algoritmos en incendios forestales (/en/papers/1988/la-intervencion-de-los-algoritmos-en-incendios-forestales)
M. J. Ginzo Villamayor, M. Rodríguez Barreiro

Gestión eficiente de recursos aéreos en la extinción de grandes incendios forestales (/en/papers/1987/gestion-eficiente-de-recursos-aereos-en-la-extincion-de-grandes-incendios-forestales)
M. Rodríguez Barreiro, M. J. Ginzo Villamayor

Optimización de la eficiencia energética de una planta industrial/red energética (/en/papers/2296/optimizacion-de-la-eficiencia-energetica-de-una-planta-industrial-red-energetica)
Á. M. González-Rueda, A. Bermúdez de Castro, M. Shabani, *C. Álvarez Peláez*, R. Baigorri Martínez, M. A. García Cabezón

Optimización para la transición energética y reducción de emisiones en procesos industriales (/en/papers/2076/optimizacion-para-la-transicion-energetica-y-reduccion-de-emisiones-en-procesos-industriales)
J. González Díaz, D. Rodríguez Chavarría

Modelado y simulación de ciudades inteligentes con Pathfinder (/en/papers/2100/modelado-y-simulacion-de-ciudades-inteligentes-con-pathfinder)
J. C. Soage, J. Martínez, *J. Roca Pardiñas*

GT06 Functional Data Analysis IV. Functional Time Series   **Grade Hall**
5 papers | Chairperson: María Dolores Ruiz Medina   10:10 AM - 11:30 AM

A goodness-of-fit test for functional time series (/en/papers/2389/a-goodness-of-fit-test-for-functional-time-series)
J. Álvarez Liébana, W. González Manteiga, M. D. Ruiz Medina

Nonparametric estimation of covariance and autocovariance operators (/en/papers/1998/nonparametric-estimation-of-covariance-and-autocovariance-operators)
A. Caponera, J. Fageot, M. Simeoni, V. M. Panaretos

A sensitivity analysis on pure point and continuous spectral based multivatiate multiple regression approaches (/en/papers/1960/a-sensitivity-analysis-on-pure-point-and-continuous-spectral-based-multivariate-multiple-regression-approaches)
F. D. Miranda Huaynalaya, M. D. Ruiz Medina

Nonparametric Statistical Inference for i.i.d. Sparsely Observed Diffusions: an FDA Perspective (/en/papers/2001/frequency-domain-theory-for-functional-time-series-variance-decomposition-and-an-invariance-principle)
N. Mohammadi, V. Panaretos, L. Santoro

Model selection in dynamical multivariate spherical curve regression (/en/papers/1958/model-selection-in-dynamical-multivariate-spherical-curve-regression)
A. Torres Signes, M. P. Frías Bustamante, M. D. Ruiz Medina

Invited session Spanish-Italian   **Conference hall**
4 papers | Chairperson: Francisco de Asís Torres Ruiz   10:10 AM - 11:30 AM

A Group Lasso Approach for Multiple Function-on-Function Linear Regression with Environmental Applications (/en/papers/2242/a-group-lasso-approach-for-multiple-function-on-function-linear-regression-with-environmental-applications)
A. Evangelista, C. J. Acal González, A. M. Aguilera del Pino, A. Sarra, T. Di Battista, S. Palermi

Dimensionality reduction of high-dimensional data via probability density functions: an application to the forecasting problem (/en/papers/2198/dimensionality-reduction-of-high-dimensional-data-via-probability-density-functions-an-application-to-the-forecasting-problem)
F. Fortuna, F. Maturo, A. M. Aguilera, T. Di Battista

Stochastic diffusion processes for a general growth curve (/en/papers/2233/stochastic-diffusion-processes-for-a-general-growth-curve)
G. Albano, A. J. Barrera García, V. Giorno, P. Román Román, F. A. Torres Ruiz

What determines the turnover for football coaches? The case of the Italian Serie A (/en/papers/2271/what-determines-the-turnover-for-football-coaches-the-case-of-the-italian-serie-a)

F. Porro, M. Restaino, J. E. Ruiz Castro, *M. Zenga*

XIII Public Statistics Conference. Applications of new statistical methods and new sources for official statistical production (I)

Cloister room
10:10 AM - 11:30 AM

5 papers | Chairperson: Maria Victoria García Olea

Análisis de precios de alquiler y aprovechamiento estadístico a partir de la base de datos de anuncios del mercado inmobiliario de Idealista (/en/papers/2385/analisis-de-precios-de-alquiler-y-aprovechamiento-estadistico-a-partir-de-la-base-de-datos-de-anuncios-del-mercado-inmobiliario-de-idealista)
J. R. Oliva Mora, S. Fernández Boniquito

Control de Divulgación Estadística para la difusión de información sensible. Aplicación de método perturbativo para la difusión de datos del Catastro en celdas regulares de 250m de lado para Andalucía (/en/papers/2377/control-de-divulgacion-estadistica-para-la-difusion-de-informacion-sensible-aplicacion-de-metodo-perturbativo-para-la-difusion-de-datos-del-catastro-en-celdas-regulares-de-250m-de-lado-para-andalucia)
M. Escudero Tena, S. Ojeda Casares, A. Ramírez Torres, J. Valverde Martínez

Estimación de la Encuesta Estructural de Empresas utilizando métodos de Machine Learning. (/en/papers/2384/estimacion-de-la-encuesta-estructural-de-empresas-utilizando-metodos-de-machine-learning)
M. Novás Filgueira, L. Sanguiao Sande, C. Sáez Calvo, A. Garcia Monmeneu, J. Muñoz Estepa

Estimación del ADR y RevPar a través de técnicas de Big Data y su implementación en la Encuesta de Establecimientos Turísticos Receptores de Eustat (/en/papers/2390/estimacion-del-adr-y-revpar-a-traves-de-tecnicas-de-big-data-y-su-implementacion-en-la-encuesta-de-establecimientos-turisticos-receptores-de-eustat)
A. Martínez Castaño, M. Ruiz Echeverria

Un simulador para la generación de datos de telefonía móvil (/en/papers/2386/un-simulador-para-la-generacion-de-datos-de-telefonia-movil)
L. Sanguiao Sande, B. Oancea, D. Salgado Fernández, S. Barragán Andrés, M. Necula

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Inivited Session Royal Statistical Society

Audiovisual room
10:10 AM - 11:30 AM

3 papers | Chairperson: Mark Brewer

Royal Statistical Society (/en/papers/2406/royal-statistical-society)
M. Brewer

Joint spatial models to understand complex ecological processes (/en/papers/2375/joint-spatial-models-to-understand-complex-ecological-processes)
Ó. Rodriguez de Rivera Ortega

Causal inference for circular economy data (/en/papers/2405/causal-inference-for-circular-economy-data)
A. Lorenzo Arribas

Stochastic processes

A11
10:10 AM - 11:30 AM

3 papers | Chairperson: Ana Navarro Quiles

Paseantes aleatorios y_polinomios ortogonales múltiples (/en/papers/2095/paseantes-aleatorios-y-polinomios-ortogonales-multiples)
J. E. Fernández Díaz

Continuous MMAPs to model complex multi-state systems with vacation in the repair facility (/en/papers/2266/a-complex-multi-state-warm-standby-system-with-vacation-in-the-repair-facility)
J. E. Ruiz Castro, C. J. Acal González, *M. Dawabsha*

El método de Transformación de Variables Aleatorias para resolver ecuaciones diferenciales con incertidumbre (/en/papers/1935/el-metodo-de-transformacion-de-variables-aleatorias-para-resolver-ecuaciones-diferenciales-con-incertidumbre)
A. Navarro Quiles

GT11 Continuous Optimization I   **A12**
4 papers | Chairperson: Miguel Sama   10:10 AM - 11:30 AM

New representations of the normal cone to the domain of supremum functions and subdifferential calculus (/en/papers/2102/new-representations-of-the-normal-cone-to-the-domain-of-supremum-functions-and-subdifferential-calculus)
M. López Cerdá

A new specialized interior-point method for solving large-scale multistage multiscale optimization problems under uncertainty (/en/papers/1890/a-new-specialized-interior-point-method-for-solving-large-scale-multistage-multiscale-optimization-problems-under-uncertainty)
J. Castro, L. F. Escudero, J. F. Monge

The set of strong Slater points of a linear semi-infinite system (/en/papers/1952/the-set-of-strong-slater-points-of-a-linear-semi-infinite-system)
M. Rodríguez Álvarez, J. Vicente-Pérez

Lipschitz upper semicontinuity in linear optimization (/en/papers/2132/lipschitz-upper-semicontinuity-in-linear-optimization)
J. Camacho Moro, M. J. Cánovas Cánovas, J. Parra López

Biostatistics I   **A13**
4 papers | Chairperson: Yolanda Larriba   10:10 AM - 11:30 AM

A novel analytical solution for reference based and delta adjustment imputation: faster and more efficient than multiple imputation (/en/papers/2038/a-novel-analytical-solution-for-reference-based-and-delta-adjustment-imputation-faster-and-more-efficient-than-multiple-imputation)
A. Garcia Hernandez, T. Perez Perez, D. Rizopoulos, M. C. Pardo Llorente

Imputación de datos con modelos de crecimiento fetal estimados a partir de información ecográfica en diferentes tiempos gestacionales (/en/papers/2022/imputacion-de-datos-con-modelos-de-crecimiento-fetal-estimados-a-partir-de-informacion-ecografica-en-diferentes-tiempos-gestacionales)
A. García Burgos, B. González Alzaga, M. J. Jiménez Asensio, M. Lacasaña Navarro, N. Rico Castro, D. Romero Molina

Screenings in high-throughput genomic data with contemporary association measures (/en/papers/2346/screenings-in-high-throughput-genomic-data-with-contemporary-association-measures)
F. Castro-Prado, D. Edelmann, J. J. Goeman

CIRCUST, the circular-based methodology that reveals human circadian biology (/en/papers/1983/circust-the-circular-based-methodology-that-reveals-human-circadian-biology)
Y. Larriba, C. Rueda

GT02 Game Theory I. Game theory, communication and distribution   **A14**
                                                                        10:10 AM - 11:30 AM
4 papers | Chairperson: Encarnación Algaba Duran

Evaluación de la influencia de ciertos atributos en un problema de clasificación (/en/papers/2189/evaluacion-de-la-influencia-de-ciertos-atributos-en-un-problema-de-clasificacion)
L. Davila Pena, I. García Jurado, B. Casas Méndez

On centrality measures in graphs based on clustering (/en/papers/2000/on-centrality-measures-in-graphs-based-on-clustering)
A. Saavedra-Nieves, E. Algaba Duran, P. Saavedra Nieves

On variants of ordered weighted averages as tiebreaker systems in sport competitions (/en/papers/2012/on-variants-of-ordered-weighted-averages-as-tiebreaker-systems-in-sport-competitions)
J. Freixas Bosch

On cycle-free communication networks structures. (/en/papers/1989/on-cycle-free-communication-networks-structures)
E. Algaba Duran, R. van den Brink

GT18 Non-parametric statistics I. Non-parametric hypothesis tests   **A15**
                                                                        10:10 AM - 11:30 AM
4 papers | Chairperson: Eduardo García Portugués

Two-sample problem under random truncation (/en/papers/1977/two-sample-problem-under-random-truncation)
A. Lago Balseiro, J. de Uña Álvarez, J. C. Pardo-Fernández

Métodos no paramétricos para la comparación de curvas ROC con covariables (/en/papers/2171/metodos-no-parametricos-para-la-comparacion-de-curvas-roc-con-covariables)
A. Fanjul Hevia, W. González Manteiga, J. C. Pardo-Fernández

Testing quantile regression models with censored data and high-dimensional covariates (/en/papers/2348/testing-quantile-regression-models-with-censored-data-and-high-dimensional-covariates)
M. Conde-Amboage, I. Van Keilegom, W. González-Manteiga

Tests of uniformity on the hypersphere (/en/papers/2014/tests-of-uniformity-on-the-hypersphere)
E. García Portugués

Invited Session Recent advances in transportation and supply chain optimization   **A16**
                                                                        10:10 AM - 11:30 AM
4 papers | Chairperson: Alberto Santini

Application of Operations Research based Model on Norwegian Salmon Supply Chain Network addressing Environmental Concerns (/en/papers/2094/application-of-operations-research-based-model-on-norwegian-salmon-supply-chain-network-addressing-environmental-concerns)
A. De, M. Gorton, C. Hubbard

Freight-on-Transit for urban last-mile deliveries: A Strategic Planning Approach (/en/papers /2145/freight-on-transit-for-urban-last-mile-deliveries-a-strategic-planning-approach)
C. Archetti, D. Delle Donne, L. Alfandari, I. Ljubic

An extended IP formulation for the Freight on Transport problem (/en/papers/2188/an-extended-ip-formulation-for-the-freight-on-transport-problem)
D. Delle Donne, A. Santini, C. Archetti

The Hazardous Orienteering Problem (/en/papers/2127/the-hazardous-orienteering-problem)
A. Santini, C. Archetti

Posters III   **Faculty Hall**
9 papers | Chairperson: Inmaculada Jiménez Manchado   10:10 AM - 11:30 AM

Aplicación de los modelos de regresión logística mixtos a la diagnosis temprana del Alzheimer (/en/papers/2247/aplicacion-de-los-modelos-de-regresion-logistica-mixtos-a-la-diagnosis-temprana-del-alzheimer)
A. Pareja Ureña, A. M. Aguilera del Pino

CPD: Un paquete de R para la modelización de datos de conteo mediante distribuciones de Pearson complejas (/en/papers/2221/cpd-un-paquete-de-r-para-la-modelizacion-de-datos-de-conteo-mediante-distribuciones-de-pearson-complejas)
M. J. Olmo-Jiménez, S. Vílchez-López, J. Rodríguez-Avi

Enseñanza en el grado de Estadística y Empresa: La estadística a través de la realidad circundante. (/en/papers/2318/ensenanza-en-el-grado-de-estadistica-y-empresa-la-estadistica-a-traves-de-la-realidad-circundante)
V. Cueva López, J. Rodríguez Avi, A. J. López Montoya

FMM package: a proposal to analyze oscillatory signals in R (/en/papers/1976/fmm-package-a-proposal-to-analyze-oscillatory-signals-in-r)
I. Fernández Martínez, A. Rodríguez Collado, Y. Larriba, *C. Canedo*, C. Rueda

Influencia de la sobrevaloración en los índices contextuales de PISA (/en/papers/2279/influencia-de-la-sobrevaloracion-en-los-indices-contextuales-de-pisa)
C. E. Carleos Artime, N. Corral Blanco, S. Álvarez Morán

La realidad del turismo en España tras la pandemia (/en/papers/2161/la-realidad-del-turismo-en-espana-tras-la-pandemia)
I. Jiménez Manchado, R. M. Espejo Montes

Método de agrupación automática de Ward para partes de una composición (R-mode) (/en/papers /2202/metodo-de-agrupacion-automatica-de-ward-para-partes-de-una-composicion-r-mode)
J. A. Martín Fernández, V. Di Donato, V. Pawlowsky-Glahn, J. J. Egozcue

Gender inequality in Ecuador using poverty measures in RDS (/en/papers/2166/gender-inequality-in-ecuador-using-poverty-measures-in-rds)
I. Sánchez Borrego, M. M. M. Rueda García, H. Mullo Guaminga

Analizando los efectos de los sentimientos en la viralidad en Twitter (/en/papers/2058/analizando-los-efectos-de-los-sentimientos-en-la-viralidad-en-twitter)
A. Conde Sánchez, S. M. Jiménez Zafra, M. T. Martín Valdivia, A. J. Sáez Castillo

11:30 AM

COFFEE BREAK	**Faculty Hall** 11:30 AM - 12:00 PM

12:00 PM

Invited Math-In Session. Industrial Applications at CRM 3 papers | Chairperson: Lluís Alsedà i Soler	**Auditorium** 12:00 PM - 1:20 PM

Assessment of the key factors that determine the analytical expression of an adsorption breakthrough curve (/en/papers/2356/assessment-of-the-key-factors-that-determine-the-analytical-expression-of-an-adsorption-breakthrough-curve)
A. Valverde Salamanca, T. G. Myers

Front mircrorheology: A new framework to study non-Newtonian fluids (/en/papers/2243/front-mircrorheology-a-new-framework-to-study-non-newtonian-fluids)
T. Alarcon

AI applications to on-demand bus on urban transportation (/en/papers/2257/ai-applications-to-on-demand-bus-on-urban-transportation)
M. Barcelona Poza

GT20 Software and Computing for Statistics and Operations Research (SOCEIO) 5 papers | Chairperson: Emilio López Cano	**Grade Hall** 12:00 PM - 1:20 PM

Algoritmo Min-Max-Median para problemas de clasificación binaria. (/en/papers/2213/algoritmo-min-max-median-para-problemas-de-clasificacion-binaria)
R. Aznar Gimeno, L. M. Esteban, G. Sanz, R. del Hoyo-Alonso

Minería de Datos de Diagnósticos Médicos con Algoritmo A-Priori (/en/papers/2388/mineria-de-datos-de-diagnosticos-medicos-con-algoritmo-a-priori)
D. I. Cruz Barrera

Density Forecast Estimation and Evaluation: A comparison between Python and R (/en/papers/2314/density-forecast-estimation-and-evaluation-a-comparison-between-python-and-r)
J. M. Pinar Pérez, *R. Morales Arsenal*

Expert system for CO_2 concentration level forecast in classrooms (/en/papers/2206/expert-system-for-co-2-concentration-level-forecast-in-classrooms)
M. Oviedo de la Fuente, V. Teodoro, C. J. Escudero, M. Febrero-Bande

Unit testing in Statistical Software: an implementation in the SixSigma R package (/en/papers/2291/unit-testing-in-statistical-software-an-implementation-in-the-sixsigma-r-package)
P. Martínez Vaquero, *E. López Cano, J. Martínez Moguerza*

GT16 Decision Making and Process Improvement in Health Services. Decision in Health, Disasters, Development and Sustainability 5 papers | Chairperson: Fermín Mallor Giménez	**Conference hall** 12:00 PM - 1:20 PM

Algoritmos de Optimización para el servicio de urgencias: Caso de estudio en el Hospital Universitario Virgen del Rocío (/en/papers/2264/algoritmos-de-optimizacion-para-el-servicio-de-

urgencias-caso-de-estudio-en-el-hospital-universitario-virgen-del-rocio)
D. Gomez Medina, V. Fernández-Viagas, J. M. Molina Pariente, S. Leal González, Á. M. Nuñez Jaldón, C. Bueno Mariscal

Data envelopment analysis efficiency in the public sector using provider and customer opinion: An application to the Spanish health system. (/en/papers/1893/data-envelopment-analysis-efficiency-in-the-public-sector-using-provider-and-customer-opinion-an-application-to-the-spanish-health-system)
J. A. Tapia García, B. Salvador González

Evacuación asistida: un modelo conjunto para la evacuación de personas vulnerables a albergues y hospitales y abastecimiento de suministros. (/en/papers/2280/evacuacion-asistida-un-modelo-conjunto-para-la-evacuacion-de-personas-vulnerables-a-albergues-y-hospitales-y-abastecimiento-de-suministros)
I. Flores, *M. T. Ortuño Sánchez*, G. Tirado Domínguez

Physician clustering using decision-making records in an ICU digital twin (/en/papers/2060/physician-clustering-using-decision-making-records-in-an-icu-digital-twin)
D. García de Vicuña Bilbao, L. Esparza Artanga, F. Mallor Giménez

Collaborative value modelling in operational research with Delphi and decision conferencing processes (/en/papers/2366/collaborative-value-modelling-in-operational-research-with-delphi-and-decision-conferencing-processes)
M. Oliveira

XIII Public Statistics Conference. ROUND TABLE: Meeting points between official statistics and universities	**Cloister room** 12:00 PM - 1:20 PM

COLLOQUIUM I - W. J. Radermacher
1 papers | Chairperson: Jesús López Fidalgo

Audiovisual room
12:00 PM - 1:00 PM

Statistics in Times of Crisis - Method, Technique, Infrastructure, Language (/en/papers/2403/statistics-in-times-of-crisis-method-technique-infrastructure-language)
W. J. Radermacher

GT11 Continuous Optimization II
4 papers | Chairperson: Abderrahim Hantoute

A12
12:00 PM - 1:20 PM

On the lower semicontinuity of the value function in quasiconvex optimization (/en/papers/2006/on-the-lower-semicontinuity-of-the-value-function-in-quasiconvex-optimization)
F. Flores-Bazan, F. Thiele

Duality between Multi-Output Production Correspondences and Cost Functions (/en/papers/1897/duality-between-multi-output-production-correspondences-and-cost-functions)
A. Jordán Liza, *J. E. Martinez Legaz*

Convex representatives of the value function and Aumann integrals in normed spaces (/en/papers/1937/convex-representatives-of-the-value-function-and-aumann-integrals-in-normed-spaces)
A. Hantoute, F. Flores-Bazán

Limiting formulas in convex infinite optimization (/en/papers/2351/limiting-formulas-in-convex-infinite-optimization)
M. Á. Goberna Torrent, M. Volle

GT14 Biostatistics. The role of Biostatistics in Health Data Science
2 papers | Chairperson: Licesio J. Rodríguez-Aragón

A13
12:00 PM - 1:20 PM

The irruption of the AI (/en/papers/2320/the-irruption-of-the-ai)
F. Muñoz

Enhanced variable selection with statistical boosting algorithms (/en/papers/2337/enhanced-variable-selection-with-statistical-boosting-algorithms)
A. Mayr

GT02 Game Theory II. Game theory, communication and distribution
4 papers | Chairperson: Joaquín Sánchez-Soriano

A14
12:00 PM - 1:20 PM

An Analysis of Project Structure and its Impact on Project Completion Delays (/en/papers/2029/an-analysis-of-project-structure-and-its-impact-on-project-completion-delays)
F. Bernstein, G. Decroix, *J. C. Gonçalves Dosantos*

Design of water quality policies based on proportionality in multi-issue problems with crossed claims (/en/papers/2039/design-of-water-quality-policies-based-on-proportionality-in-multi-issue-problems-with-crossed-claims)
R. Acosta Vega, E. Algaba Duran, J. Sánchez-Soriano

The coalitional Colomer-Martínez power index for weighted majority games with a coalition structure (/en/papers/1993/the-coalitional-colomer-martinez-power-index-for-weighted-majority-games-with-a-coalition-structure)
L. M. Armijos Toro, J. M. Alonso Meijide, M. A. Mosquera Rodríguez

Problemas de bancarrota con restricciones en las retiradas (/en/papers/1994/problemas-de-bancarrota-con-restricciones-en-las-retiradas)
J. Sánchez-Soriano

GT18 Non-parametric statistics II. Nonparametric inference for density and distribution
4 papers | Chairperson: Andrea Meilán-Vila

A15
12:00 PM - 1:20 PM

Copula-based estimation of a bivariate distribution from censored successive times (/en/papers /2173/copula-based-estimation-of-a-bivariate-distribution-from-censored-successive-times)
J. de Uña Álvarez, *A. Panduro Martín*

Estimating the number of directional clusters from density-based methods (/en/papers /1912/estimating-the-number-of-directional-clusters-from-density-based-methods)
P. Saavedra Nieves, R. M. Crujeiras

Do not blindly use the ARI for clustering evaluation (/en/papers/1981/do-not-blindly-use-the-ari-for-clustering-evaluation)
J. E. Chacón

Kernel density estimation on polyspherical data (/en/papers/2268/kernel-density-estimation-on-polyspherical-data)
A. Meilán-Vila, E. García Portugués

1:00 PM

COLLOQUIUM II - Francisco Martín and Rosa Lillo
1 papers | Chairperson: Jesús López Fidalgo

Audiovisual room
1:00 PM - 2:00 PM

Proyectos Agencia Estatal de Investigación (/en/papers/2404/proyectos-agencia-estatal-de-investigacion)
F. Martín, R. E. Lillo

1:20 PM

Math-In WORKING GROUP

Auditorium
1:20 PM - 2:00 PM

GT20 WORKING GROUP

Grade Hall
1:20 PM - 2:00 PM

GT13 and GT16 WORKING GROUP

Conference hall
1:20 PM - 2:00 PM

GT11 WORKING GROUP

A12
1:20 PM - 2:00 PM

GT14 WORKING GROUP

A13
1:20 PM - 2:00 PM

GT02 WORKING GROUP

A14
1:20 PM - 2:00 PM

GT18 WORKING GROUP

A15
1:20 PM - 2:00 PM

2:00 PM

HOTEL LUNA LUNCH	2:00 PM - 4:00 PM

4:00 PM

OPERATIONAL INVESTIGATION PLENARY (SIXTO RIOS) Ramón Álvarez-Valdés

Auditorium
4:00 PM - 5:10 PM

1 papers | Chairperson: Federico Perea

[Una caja llena de problemas: optimización en terminales marítimas de contenedores (/en/papers/2379/una-caja-llena-de-problemas-optimizacion-en-terminales-maritimas-de-contenedores)](/en/papers/2379/una-caja-llena-de-problemas-optimizacion-en-terminales-maritimas-de-contenedores)
R. Alvarez-Valdes

5:10 PM

Invited Session Math-In. Industrial Applications IV

Auditorium
5:10 PM - 6:30 PM

5 papers | Chairperson: Antonio Alonso Ayuso

[Construcción de un modelo predictivo para la valoración de pacientes que ingresan con un ictus isquémico (/en/papers/2325/construccion-de-un-modelo-predictivo-para-la-valoracion-de-pacientes-que-ingresan-con-un-ictus-isquemico)](/en/papers/2325/construccion-de-un-modelo-predictivo-para-la-valoracion-de-pacientes-que-ingresan-con-un-ictus-isquemico)
F. Reche Lorite, J. M. García Torrecillas, L. Téllez Ramírez

[Forecasting multiple buildings energy consumption (/en/papers/2077/forecasting-multiple-buildings-energy-consumption)](/en/papers/2077/forecasting-multiple-buildings-energy-consumption)
J. Huete Cubillo, A. Elías Fernández, J. M. Morales González, S. Pineda Morente

[Matheuristics to create the flight schedule of Ryanair (/en/papers/1948/matheuristics-to-create-the-flight-schedule-of-ryanair)](/en/papers/1948/matheuristics-to-create-the-flight-schedule-of-ryanair)
D. Garcia Heredia, B. Rybicki

[Mejora de procesos en el sector de laminados de acero (/en/papers/2031/mejora-de-procesos-en-el-sector-de-laminados-de-acero)](/en/papers/2031/mejora-de-procesos-en-el-sector-de-laminados-de-acero)
Ó. Soto-Sánchez, M. Sierra-Paradinas, M. Gallego, J. Martín Campo, F. Gortázar, A. Alonso-Ayuso

[Planificación de la distribución de productos petrolíferos en Perú (/en/papers/2025/planificacion-de-la-distribucion-de-productos-petroliferos-en-peru)](/en/papers/2025/planificacion-de-la-distribucion-de-productos-petroliferos-en-peru)
A. Alonso Ayuso, E. Nuñez Domingo, S. Santamaría, V. González-Iniesta

Invited Session Hispanic R Community. The R ecosystem in the Big Data context

Grade Hall
5:10 PM - 6:30 PM

5 papers | Chairperson: Emilio López Cano

[Control estadístico de la calidad con los paquetes qcr e ILS (/en/papers/2309/control-estadistico-de-la-calidad-con-los-paquetes-qcr-e-ils)](/en/papers/2309/control-estadistico-de-la-calidad-con-los-paquetes-qcr-e-ils)
M. Flores Sánchez, S. Naya Fernández, R. Fernandez Casal, J. Tarrío Saavedra

[Introduction to multispectral satellite data thorough rsat package (/en/papers/2272/introduction-to-multispectral-satellite-data-thorough-rsat-package)](/en/papers/2272/introduction-to-multispectral-satellite-data-thorough-rsat-package)
U. Pérez-Goya, A. Fernández Militino, L. Ugarte

[Muestrear no es pecado (/en/papers/2209/muestrear-no-es-pecado)](/en/papers/2209/muestrear-no-es-pecado)
J. L. Cañadas Reche

[The rOpenSpain project: R and open data (/en/papers/2205/the-ropenspain-project-r-and-open-data)](/en/papers/2205/the-ropenspain-project-r-and-open-data)

I. Úcar Marqués

Plataforma Síagro: caso de éxito de R como catalizador de la colaboración academia-industria (/en/papers/2300/plataforma-siagro-caso-de-exito-de-r-como-catalizador-de-la-colaboracion-academia-industria)
E. López Cano, C. González Fernández, A. García de Marina Martín

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GT13 Disasters, Development and Sustainability. Decision in Health, Disasters, Development and Sustainability	**Conference hall**
5 papers | Chairperson: Begoña Vitoriano Villanueva	5:10 PM - 6:30 PM

Planificación y programación de quirófanos con incertidumbre en la duración de la intervenciones y llegadas de urgencias: Un enfoque integrado (/en/papers/2331/planificacion-y-programacion-de-quirofanos-con-incertidumbre-en-la-duracion-de-la-intervenciones-y-llegadas-de-urgencias-un-enfoque-integrado)
J. M. Molina-Pariente, V. Fernandez-Viagas, J. M. Framinan, S. Leal González, T. Gómez Cia

Applications of Modelling in Policing: 7 years of collaborations with the Spanish National Police (/en/papers/2126/applications-of-ai-and-data-science-in-policing-7-years-of-collaborations-with-the-spanish-national-police)
F. Liberatore, M. Camacho-Collados, L. Quijano-Sanchez, B. Vitoriano Villanueva

Un modelo optimización para la extinción de incendios forestales con recursos limitados (/en/papers/2227/un-modelo-optimizacion-para-la-extincion-de-incendios-forestales-con-recursos-limitados)
B. Granda, B. Vitoriano

Escenarios estocásticos y redes bayesianas para modelar el riesgo de incendios forestales (/en/papers/2135/escenarios-estocasticos-y-redes-bayesianas-para-modelar-el-riesgo-de-incendios-forestales)
A. Rodríguez-Martínez, B. Vitoriano Villanueva, G. Barderas, J. Barreal

Racionalización del uso de recursos sanitarios en zonas rurales para la atención de urgencias y emergencias (/en/papers/2063/racionalizacion-del-uso-de-recursos-sanitarios-en-zonas-rurales-para-la-atencion-de-urgencias-y-emergencias)
M. Cildoz Esquiroz, M. Gastón Romeo, L. Frías Paredes, D. García de Vicuña Bilbao, C. Azcárate Camio, F. Mallor Giménez

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XIII Public Statistics Conference. ROUND TABLE: Sustainable Development Goals	**Cloister room**
Chairperson: Iria Enrique	5:10 PM - 6:30 PM

Time series	**A11**
4 papers | Chairperson: Alexander Esquivel López	5:10 PM - 6:30 PM

How can we detect chaos from time series data? Estimating Lyapunov exponents by nonlinear global and local regression models (/en/papers/1919/how-can-we-detect-chaos-from-time-series-data-estimating-lyapunov-exponents-by-nonlinear-global-and-local-regression-models)
J. E. Sandubete Galán, L. Escot Mangas

Estudio de técnicas de series temporales aplicadas a la especulación en el mercado FOREX (/en/papers/2186/estudio-de-tecnicas-de-series-temporales-aplicadas-a-la-especulacion-en-el-mercado-forex)

I. Meca Sáez, J. J. López Espin, J. J. Rodríguez Sala, A. Rabasa Dolado

PREDICCIONES DE DESEMPLEO CON SERIES TEMPORALES. ANÁLISIS DE LS EFECTOS COVID19 (/en/papers/2176/predicciones-de-desempleo-con-series-temporales-analisis-de-ls-efectos-covid19)
C. Pérez López, J. A. Martín Segura

Uso de series temporales para el pronóstico de concentraciones 7Be en la Ciudad de Panamá (/en/papers/2096/uso-de-series-temporales-para-el-pronostico-de-concentraciones-7be-en-la-ciudad-de-panama)
A. Esquivel López, N. Tejedor Flores, B. Fernández, O. Pérez

GT11 Continuous Optimization III   **A12**
4 papers | Chairperson: Margarita Rodríguez Álvarez   5:10 PM - 6:30 PM

A unified concept of approximate and quasi efficient solutions in multiobjective optimization (/en/papers/2098/a-unified-concept-of-approximate-and-quasi-efficient-solutions-in-multiobjective-optimization)
L. Huerga Pastor, B. Jiménez Martín, D. T. Luc, V. Novo

Differential stability properties in scalar and vector convex optimization (/en/papers/2085/differential-stability-properties-in-scalar-and-vector-convex-optimization)
C. Gutiérrez Vaquero, D. T. V. An

A reformulation on a product space with reduced dimension for splitting algorithms (/en/papers/1924/a-reformulation-on-a-product-space-with-reduced-dimension-for-splitting-algorithms)
R. Campoy García

A new Lagrange-type duality approach in set-valued convex programming based on pointed closed convex processes (/en/papers/1895/a-new-lagrange-type-duality-approach-in-set-valued-convex-programming-based-on-pointed-closed-convex-processes)
M. A. Melguizo Padial, F. García Castaño

Biostatistics II   **A13**
3 papers | Chairperson: Desirée Romero Molina   5:10 PM - 6:30 PM

La técnica de Diferencias en Diferencias aplicada a la evaluación de programas sanitarios públicos de prevención del cáncer de mama (/en/papers/1966/la-tecnica-de-diferencias-en-diferencias-aplicada-a-la-evaluacion-de-programas-sanitarios-publicos-de-prevencion-del-cancer-de-mama)
J. A. Martín Segura, C. Pérez López, M. Blanco Dominguez

Revisión del estadístico de las marcas en parámetros asociados a las tablas 2x2 (/en/papers/2191/revision-del-estadistico-de-las-marcas-en-parametros-asociados-a-las-tablas-2x2)
A. Martín Andrés, F. Gayá Moreno, *M. Álvarez Hernández*, I. Herranz Tejedor

Análisis de efectos de mediación en la relación entre neurodesarrollo infantil y exposición pre- y post-natal a organofosforados (/en/papers/2177/analisis-de-efectos-de-mediacion-en-la-relacion-entre-neurodesarrollo-infantil-y-exposicion-pre-y-post-natal-a-organofosforados)
D. Romero Molina, V. Castillo Segura, B. González Alzaga, M. J. Jiménez Asensio, M. Lacasaña Navarro, N. Rico Castro

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Games theory   **A14**

5 papers | Chairperson: Mikel Alvarez Mozos 5:10 PM - 6:30 PM

Criticality orders in flow situations (/en/papers/1922/criticality-orders-in-flow-situations)
M. T. Estañ Pereña, V. Fragnelli

Multinomial values, necessary and nullifyimg players (/en/papers/1916/multinomial-values-necessary-and-nullifyimg-players)
M. Domènech Blázquez, J. M. Giménez Pradales, *M. A. Puente del Campo*

Formación de coaliciones y estabilidad (/en/papers/1954/formacion-de-coaliciones-y-estabilidad)
F. Carreras Escobar, *A. Magaña Nieto*

Nueva caracterización axiomática del bisemivalor de Shapley para juegos bicooperativos (/en/papers
/1910/nueva-caracterizacion-axiomatica-del-bisemivalor-de-shapley-para-juegos-bicooperativos)
M. Domènech Blázquez, J. M. Giménez Pradales, M. A. Puente del Campo

Solutions for Global Games (/en/papers/1997/solutions-for-global-games)
M. Alvarez Mozos, J. M. Alonso Meijide, M. G. Fiestras Janeiro, A. Jiménez Losada

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GT18 Non-parametric statistics III. Nonparametric **A15**
inference for regression 5:10 PM - 6:30 PM
4 papers | Chairperson: Jose Ameijeiras-Alonso

Local likelihood regression estimation for circular covariates (/en/papers/2146/local-likelihood-regression-estimation-for-circular-covariates)
M. Alonso-Pena, I. Gijbels, R. M. Crujeiras

Regresión isotónica logística para el cálculo de estructuras en fiabilidad (/en/papers/2056/regresion-isotonica-logistica-para-el-calculo-de-estructuras-en-fiabilidad)
F. J. Navas Gómez, M. L. Gámiz Pérez, R. Raya Miranda

Robust tests for the comparison of regression curves (/en/papers/1930/robust-tests-for-the-comparison-of-regression-curves)
J. C. Pardo-Fernández, G. Boente

On a semiparametric circular regression model (/en/papers/2217/on-a-semiparametric-circular-regression-model)
J. Ameijeiras-Alonso, I. Gijbels

Methods and Models of Operational Research **A16**
4 papers | Chairperson: Joaquín Sicilia Rodríguez 5:10 PM - 6:30 PM

Análisis de un sistema de inventario con maximización de rentabilidad y demanda dependiente del precio de venta y del nivel de stock (/en/papers/2232/analisis-de-un-sistema-de-inventario-con-maximizacion-de-rentabilidad-y-demanda-dependiente-del-precio-de-venta-y-del-nivel-de-stock)
V. Pando Fernández, L. A. San José Nieto, J. Sicilia Rodríguez, D. Alcaide López de Pablo

Exploring AI approaches to improve the resolution of unsplittable multicommodity flow problems in wireless networks (/en/papers/2334/exploring-ai-approaches-to-improve-the-resolution-of-unsplittable-multicommodity-flow-problems-in-wireless-networks)
V. SONIA, *W. Romain*, H. Wattez

Optimización de trayectorias para las rutas de llegada a la terminal del aeropuerto y asignación de pistas (/en/papers/2020/optimizacion-de-trayectorias-para-las-rutas-de-llegada-a-la-terminal-del-

aeropuerto-y-asignacion-de-pistas)
R. de Celis Fernández, L. Cadarso Morga

[Un modelo de producción-inventario para productos con demanda dependiente del tiempo y roturas recuperables](/en/papers/2354/un-modelo-de-produccion-inventario-para-productos-con-demanda-dependiente-del-tiempo-y-roturas-recuperables) (/en/papers/2354/un-modelo-de-produccion-inventario-para-productos-con-demanda-dependiente-del-tiempo-y-roturas-recuperables)
J. Sicilia Rodríguez, L. A. San José Nieto, M. González de la Rosa, J. Febles Acosta

7:00 PM

| VISIT ALHAMBRA AND COCKTAIL IN CARMEN DE LOS MARTIRES | 7:00 PM - 11:55 PM |

SEIO2022 Granada

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Latest news

6/8/22
Visit Alhambra
Tomorrow, Thursday, we will visit the Alhambra. 1. At 7:00 p.m., buses will start leaving from the door of the Hotel Granada Center (in front of the door of the Faculty of Sciences) 2. Upon arrival, groups with guides will be organized. 3. There will be groups in English language. These groups will wait at the destination until the arrival of all buses. 4. After the visit to the Alhambra we will walk to the Carmen de los Mártires to have a cocktail. 5. On the way back, we can go back by bus, which will leave from the same place where they left us at the Alhambra. 6. Although the way to the Alhambra by bus seems long, it really is close to the city. We invite you, whoever wishes, to go down for a pleasant walk. 7. Do not forget to take your Alhambra ticket and your identity card or passport. The document must be the same whose number matches the ticket number you have.

5/31/22
YouTube Channel
The menu label is already on the web from where you can see the live broadcasts: inauguration, plenary sessions, round tables,... Don't forget to enter the YouTube channel and subscribe!!!!

5/27/22
Gala Dinner
It opens the possibility that anyone who is registered for the conference, and wants non-registered companions to attend the gala dinner, can do so by paying the price of this dinner (80 euros VAT included). This payment must be made before June 1 (inclusive). To do this, contact with seio2022@eurocongres.es

5/23/22
IMPORTANT WARNING
To access the Alhambra on the visit on Thursday 9, it is obligatory to present the identification document whose reference was sent to the organization (eurocongress)

5/16/22
Social Events
All social events are included with the payment of the corresponding registration.

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Math Institute UGR (http://iemath.ugr.es/en/)

Spanish Society of Statistics and Operations Research (http://www.seio.es/index.php?lang=en)

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