



Publicaciones del área de Probabilidad y Estadística.

Practical and Optimal Likelihood Intervals and Regions for Weibull and Gumbel Distributions

2024 Technometrics

Eloisa Díaz-Francés Murguía,

Modeling and statistical analysis of growth and shape problems of the brown crab *Callinectes bellicosus*

2024 Latin american journal of aquatic research

Enrique Raúl Villa Diharce, Enrique Villa-Diharce, María Guadalupe Russell-Noriega, Guillermo Rodríguez-Domínguez

An extended multiplicative error model of allometry: Incorporating systematic components, non-normal distributions, and piecewise heteroscedasticity

2024 Biology Methods and Protocols

Rodrigo Macías Paez, José Fernando Vera Vera, Ricardo Subiabre

Life Cycle and Natural Mortality Rates of the Blue Spiny Lobster (*Panulirus inflatus*)

2024 Journal of Shellfish Research

Octavio Arizmendi Echegaray, Saylé Sigarrete Ricardo

A Levy-Itô decomposition on a class of topological monoid

2024 ESAIM: Probability and Statistics

Gerardo Pérez Suárez, Ulises Pérez Cendejas

Dating the Mexican business cycles since 1980 by disentangling the monthly economic activity

2024 Journal of Business Cycle Research

Graciela María de los Dolores González Farías,





Convex Decreasing Algorithms: Distributed Synthesis and Finite-Time Termination in Higher Dimension

2024 IEEE Transactions on Automatic Control

James Christopher Melbourne,

On a Conjecture of Feige for Discrete Log-Concave Distributions

2024 SIAM Journal on Discrete Mathematics

James Christopher Melbourne,

Estimates for exponential functionals of continuous Gaussian processes with emphasis on fractional Brownian motion

2024 ALEA, Lat. Am. J. Probab. Math. Stat.

Juan Carlos Pardo Millán, William da Silva

Bayesian Approaches to Proxy Uncertainty Quantification in Paleoecology: A Mathematical Justification and Practical Integration

2024 Journal of Agricultural, Biological, and Environmental Statistics

José Andrés Christen Gracia,

Dynamic survival analysis: Modelling the hazard function via ordinary differential equations

2024 Statistical Methods in Medical Research

José Andrés Christen Gracia,

Modeling evolutionary power spectral density functions of strong earthquakes via copulas

2024 Soil Dynamics and Earthquake Engineering

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Modelling chronologically ordered radiocarbon dates in R

2024 Radiocarbon

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Alpha-stable branching and beta-frequency processes, beyond the IID assumption.

2021 Electronic Communications in Probability

José Luis Ángel Pérez Garmendía,

An optimal multibarrier strategy for a singular stochastic control problem with a state-dependent reward

2020 Applied Mathematics and Optimization

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Non-zero-sum optimal stopping game with continuous versus periodic observations.

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José Luis Ángel Pérez Garmendía,

Optimal dividends and capital injection: A general Lévy model with extensions to regime-switching models.

2020 Insurance: Mathematics and Economics

José Luis Ángel Pérez Garmendía,

The ancestral selection graph for a Λ -asymmetric Moran model

2019 Theoretical Population Biology

José Luis Ángel Pérez Garmendía,

The relative frequency between two continuous-state branching processes with immigration and their genealogy.

2024 The Annals of Applied Probability

José Luis Ángel Pérez Garmendía,





Passive Control of the Flow Around a Rectangular Cylinder with a Custom Rough Surface

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José Luis Márquez Urbina, Mario A. Aguirre-López, Filiberto Hueyotl-Zahuantitla, Pedro Martínez-Vázquez

Lévy Bandits Under Poissonian Decision Times

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José Luis Pérez, Kazutoshi Yamazaki

Nonzero-Sum Optimal Stopping Game with Continuous vs. Periodic Exercise Opportunities

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José Luis Pérez, Neofytos Rodosthenous, Kazutoshi Yamazaki

La replicabilidad en la ciencia y el papel transformador de la metodología estadística de knockoffs

2024 SahuarUS. Revista Electrónica de Matemáticas

José Ulises Márquez Urbina, Alejandro Román Vásquez, Gabriel Escarela, Gabriel Núñez-Antonio

Cutoff ergodicity bounds in Wasserstein distance for a viscous energy shell model with Lévy noise.

2024 Journal of Statistical Physics

Juan Carlos Pardo Millán, Gerardo Barrera, Michael Hoegele, Ilya Pavlyukevich

Explosion Rates for Continuous-State Branching Processes in a Lévy Environment

2024 Journal of Theoretical Probability

Juan Carlos Pardo Millán,

Multitype self-similar growth-fragmentation processes

2024 ALEA Latin American Journal of Probability and Mathematical Statistics

Juan Carlos Pardo Millán, Gerardo Barrera, Michael Hoegele





Speed of extinction for continuous state branching processes in subcritical Lévy environments: the strongly and intermediate regimes.

2024 ALEA Latin American Journal of Probability and Mathematical Statistics

Juan Carlos Pardo Millán, Samuel Johnston, Simon Harris

The coalescent structure of Galton-Watson trees in varying environments

2024 Annals of Applied Probability

Juan Carlos Pardo Millán, Sandra Palau Calderón, Simon Harris

The cutoff phenomenon in Wassertein distance for nonlinear stable Langevin systems with small Lévy noise.

2024 Journal of Dynamics and Differential Equations

Enrique Villa Diharce, Hector Echavarría-Heras, Abelardo Montesinos-Lopez, Cecilia Leal-Ramirez

Universality classes for the coalescent structure of heavy-tailed Galton-Watson trees

2024 Annals of Probability

Enrique Villa Diharce, Evlin A. Ramírez-Félix, J. Antonio García-Borbón, Miguel Á. Cisneros-Mata

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Lilia Leticia Ramírez Ramírez, Víctor Hugo Muñiz Sánchez, Haydee Contreras Peruyero, Mirna Vazquez Rosas, Antón Pashkov, Daniel Santana-Quinteros, Mario E. Carranza-Barragán, Rafael Perez-Estrada¹, Shaday Guerrero Flores, Eugenio Balanzari, Miguel Nakamura (ya no pude poner como interno), Nelly Sélem-Mojica

New Combinatorial Identity for the Set of Partitions and Limit Theorems in Finite Free Probability Theory

2024 International Mathematics Research Notices

Octavio Arizmendi, Katsunori Fujie, Yuki Ueda





The change of vertex energy when joining trees

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Octavio Arizmendi Echegaray, Roland Speicher, Guillaume Cébron, Sheng Yin

Universality of free random variables: atoms for non-commutative rational functions

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Octavio Arizmendi Echegaray,

A Cluster Differences Unfolding Method for Large Datasets of Preference Ratings on An Interval Scale:

Minimizing the Mean Squared Centred Residuals

2024 British Journal of Mathematical and Statistical Psychology

Rodrigo Macias Paez, José Fernando Vera Vera, Willem Heiser

Clustering and Geodesic Scaling of Dissimilarities on The Spherical Surface

2024 Journal of Agricultural, Biological, and Environmental Statistics.

José Alfredo López Mimbela,

Lévy processes resurrected in the positive half-line

2024 Electron. Commun. Probab.

Víctor Manuel Rivero Mercado, María Emilia Caballero, Loic Chaumont

Williams' path decomposition for self-similar Markov processes in $\mathbb{R}^d$

2024 Electronic Journal of Probability

Víctor Manuel Rivero Mercado, Mehar Motala, Andreas Eos Kyprianou

Ray Knight theorems for spectrally negative Lévy processes

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Victor Rivero, Jesus Contreras

