Papers

Chakraborty, A. & **Panaretos, V.M.**

Waghmare, K. & **Panaretos, V.M.**
The Completion of Covariance Kernels.

Sarkar, S. & **Panaretos, V.M.**
Covariance Networks for Functional Data on Multidimensional Domains.

Masak, T., Sarkar, S. & **Panaretos, V.M.**
Separable Expansions for Covariance Estimation via the Partial Inner Product.
*Biometrika* (to appear).

Masak, T. & **Panaretos, V.M.**
Random Surface Covariance Estimation by Shifted Partial Tracing.

Masak, T., Rubin, T. & **Panaretos, V.M.**
Inference and Computation for Sparsely Sampled Random Surfaces.

Ghodrati, L. & **Panaretos, V.M.**
Distribution-on-Distribution Regression via Optimal Transport Maps.
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Caponera, A., Fageot, J., Simeoni, M. & **Panaretos, V.M.** (2022)
Functional Estimation of Anisotropic Covariance and Autocovariance Operators on the Sphere.

Caponera, A. & **Panaretos, V.M.** (2022)
On the Rate of Convergence for the Autocorrelation Operator in Functional Autoregression.

Chakraborty, A. & **Panaretos, V.M.** (2021)
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Rubin, T. & **Panaretos, V.M.** (2020)
Functional Lagged Regression with Sparse Noisy Observations.
Rubin, T. & Panaretos, V.M. (2020)  

Statistical Aspects of Wasserstein Distances.  

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Procrustes Metrics on Covariance Operators and Optimal Coupling of Gaussian Processes.  

Hybrid regularisation and the (in)admissibility of ridge regression in infinite dimensional Hilbert spaces.  

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Pham, T. & Panaretos, V.M. (2018)  
Methodology and Convergence Rates for Functional Time Series Regression.  
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Empirical Evolution Equations.  

Detecting and Localising Differences in Functional Time Series Dynamics: A Case Study in Molecular Biophysics.  

Amplitude and Phase Variation of Point Processes.  

Statistical Unfolding of Elementary Particle Spectra: Empirical Bayes Estimation and Bias-Corrected Uncertainty Quantification.  
Principal Flows. 

Frequentist Estimation of The Spreading Potential of an Epidemic when Observations are Scarce. 

Cramér-Karhunen-Loève Representation and Harmonic Principal Component Analysis of Functional Time Series 

Fourier Analysis of Stationary Time Series in Function Space 

Dispersion Operators and Resistant Second-Order Functional Data Analysis. 

Nonparametric Construction of Multivariate Kernels 

Asymptotic Inference for Partially Observed Branching Processes. 

Sparse Approximations to Protein Structure from Noisy Random Projections. 

A Conversation with David R. Brillinger. 

Second–Order Comparison of Gaussian Random Functions and the Geometry of DNA Minicircles. 

On Random Tomography With Unobservable Projection Angles. 

Representation of Radon Shape Diffusions via Hyperspherical Brownian Motion. 
Partialy Observed Branching Processes for Stochastic Epidemics.

The Diffusion of Radon Shape.

Preprints

Mohammadi, N. & Panaretos, V.M.
Detecting Whether a Stochastic Process is Finitely Expressed in a Basis.

Mohammadi, N., Santoro, L. & Panaretos, V.M.
Nonparametric Estimation for SDE with Sparsely Sampled Paths: an FDA Perspective.

Mohammadi Jouzdani, N. & Panaretos, V.M.
Functional Data Analysis with Rough Sampled Paths?

Chakraborty, A. & Panaretos, V.M.
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Spectral Simulation of Functional Time Series.

Books and Monographs

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*An Invitation to Statistics in Wasserstein Space.*

*Statistics for Mathematicians: A Rigorous First Course.*
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*Statistique pour Mathématiciens: Un Premier Cours Rigoureux.*
Presses Polytechniques et Universitaires Romands.
Book Chapters

Commentary on Selected Mathematical Papers of D.R. Brillinger.
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Refereed Conference Proceedings

A Statistician’s View on Deconvolution and Unfolding