



Volume 31, issue 4, December 2022

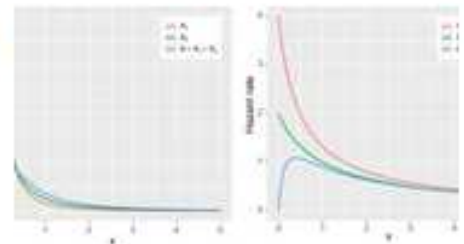
13 articles in this issue

[On sums of dependent random lifetimes under the time-transformed exponential model](#)

Jorge Navarro, Franco Pellerey & Julio Mulero

Original Paper | [Open Access](#) | Published: 17 March 2022

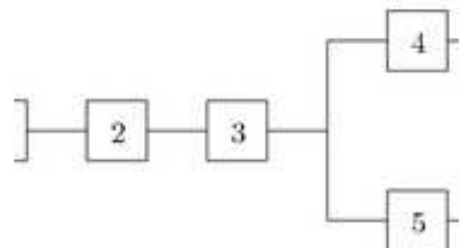
Pages: 879 - 900



[Preservation of distributional properties of component lifetimes by system lifetimes](#)

Barry C. Arnold, Tomasz Rychlik & Magdalena Szymkowiak

Original Paper | Published: 27 April 2022 | Pages: 901 - 930



[Testing conditional multivariate rank correlations: the effect of institutional quality on factors influencing competitiveness](#)

Jone Ascorbebeitia, Eva Ferreira & Susan Orbe

Original Paper | [Open Access](#) | Published: 01 April 2022

Pages: 931 - 949

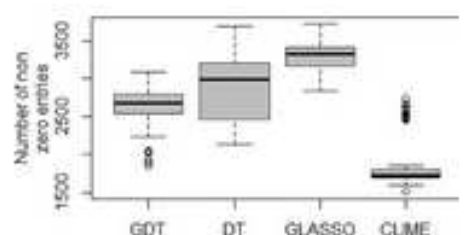
```
for each component  $C_i = (x_i, y_i)^T$  for  $i = 1, \dots, n$ 
for  $i = 1$  to  $n$ 
  Value  $T_{i,1}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{x_j \leq x_i\}}$ 
  Value  $T_{i,2}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{y_j \leq y_i\}}$ 
  Value  $T_{i,3}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{x_j \leq x_i, y_j \leq y_i\}}$ 
  Value  $T_{i,4}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{x_j \leq x_i, y_j > y_i\}}$ 
  Value  $T_{i,5}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{x_j > x_i, y_j \leq y_i\}}$ 
  Value  $T_{i,6}^{(1)} = \frac{1}{n} \sum_{j=1}^n \mathbb{1}_{\{x_j > x_i, y_j > y_i\}}$ 
end for
Calculate  $T_{i,j}^{(1)}$  and  $T_{i,j}^{(2)}$  for  $i = 1, \dots, n$  and  $j = 1, \dots, 6$ 
end for
Calculate  $T_{i,j}^{(2)}$  for  $i = 1, \dots, n$  and  $j = 1, \dots, 6$ 
end for
Calculate  $T_{i,j}^{(3)}$  for  $i = 1, \dots, n$  and  $j = 1, \dots, 6$ 
end for
Calculate  $T_{i,j}^{(4)}$  for  $i = 1, \dots, n$  and  $j = 1, \dots, 6$ 
end for
end for
```

[Precision matrix estimation using penalized Generalized Sylvester matrix equation](#)

Vahe Avagyan

Original Paper | [Open Access](#) | Published: 09 April 2022

Pages: 950 - 967



[Adaptive bi-level variable selection for multivariate failure time model with a diverging number of covariates](#)

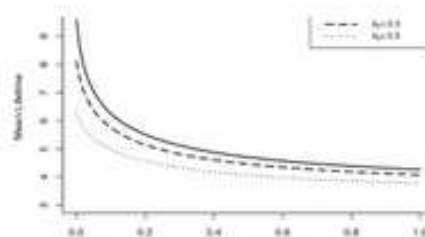
Kaida Cai, Hua Shen & Xuewen Lu

Original Paper | Published: 16 April 2022 | Pages: 968 - 993

[On the general \$\delta\$ -shock model](#)

Dheeraj Goyal, Nil Kamal Hazra & Maxim Finkelstein

Original Paper | Published: 01 April 2022 | Pages: 994 - 1029

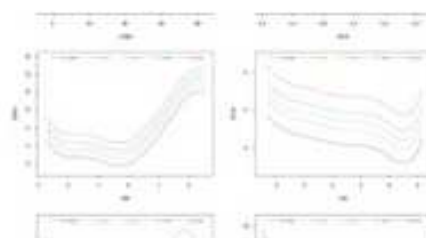


[Interquantile shrinkage in spatial additive autoregressive models](#)

Jiawei Hou & Yunquan Song

Original Paper | Published: 10 April 2022

Pages: 1030 - 1057



[Reducing degradation and age of items in imperfect repair modeling](#)

Maxim Finkelstein & Ji Hwan Cha

Original Paper | Published: 05 May 2022 | Pages: 1058 - 1081

[Copula-based bivariate finite mixture regression models with an application for insurance claim count data](#)

Lluís Bermúdez & Dimitris Karlis

Original Paper | [Open Access](#) | Published: 04 May 2022

Pages: 1082 - 1099

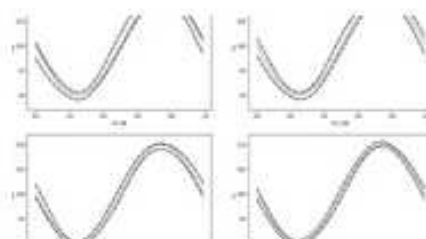


[Inference for dependent error functional data with application to event-related potentials](#)

Kun Huang, Sijie Zheng & Lijian Yang

Original Paper | Published: 15 June 2022

Pages: 1100 - 1120

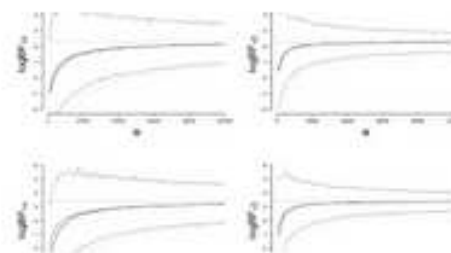


[Bayes factors for peri-null hypotheses](#)

Alexander Ly & Eric-Jan Wagenmakers

Original Paper | [Open Access](#) | Published: 23 June 2022

Pages: 1121 - 1142



[Estimation of poverty and inequality in small areas: review and discussion](#)

Isabel Molina, Paul Corral & Minh Nguyen

Original Paper | Published: 21 June 2022 | Pages: 1143 - 1166

[Correction to: Testing conditional multivariate rank correlations: the effect of institutional quality on factors influencing competitiveness](#)

Jone Ascorbebeitia, Eva Ferreira & Susan Orbe

Correction | [Open Access](#) | Published: 28 June 2022 | Pages: 1167 - 1167