

Personal data

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Education

PhD in Mathematics (University of Granada)

Faculty position

Associate Professor
Department of Statistics and O.R.
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Research interest

- Reliability and Survival analysis
- Nonparametric curve estimation: hazard, density and regression
- Statistical inference for stochastic processes
- Markov and semi-Markov models

Publications (2010-)

1. Gámiz, M. L., Limnios, N., & Segovia-García, M. C. (2023). The continuous-time hidden Markov model based on discretization. Properties of estimators and applications. *Statistical Inference for Stochastic Processes*, 1-26.
2. Gámiz, M. L., Navas-Gómez, F., Raya-Miranda, R., & Segovia-García, M. C. (2023). Dynamic reliability and sensitivity analysis based on HMM models with Markovian signal process. *Reliability Engineering & System Safety*, 239, 109498.
3. Gámiz, M. L., Navas-Gómez, F., Nozal-Cañadas, R., & Raya-Miranda, R. (2023). Unsupervised and supervised learning for the reliability analysis of complex systems. *Quality and Reliability Engineering International*.
4. Gámiz, M. L., Limnios, N., & del Carmen Segovia-García, M. (2023). Hidden Markov models in reliability and maintenance. *European Journal of Operational Research*, 304(3), 1242-1255.
5. Gámiz, M. L., Montoro-Cazorla, D., Segovia-García, M. D. C., & Pérez-Ocón, R. (2022). MoMA Algorithm: A Bottom-Up Modeling Procedure for a Modular System under Environmental Conditions. *Mathematics*, 10(19), 3521.
6. Gámiz, M. L., Mammen, E., Martínez-Miranda, M. D., & Nielsen, J. P. (2022). Missing link survival analysis with applications to available pandemic data. *Computational Statistics & Data Analysis*, 169, 107405.
7. Gámiz, M. L., Kalén, A., Nozal-Canadas, R., & Raya-Miranda, R. (2022). Statistical supervised learning with engineering data: a case study of low frequency noise measured on semiconductor devices. *The International Journal of Advanced*

- Manufacturing Technology*, 120(9-10), 5835-5853.
8. Gámiz, M. L., Navas-Gómez, F. J., & Raya-Miranda, R. (2020). A machine learning algorithm for reliability analysis. *IEEE Transactions on Reliability*, 70(2), 535-546.
 9. Gámiz, M. L., Nozal-Cañadas, R., & Raya-Miranda, R. (2020). TTT-SiZer: A graphic tool for aging trends recognition. *Reliability Engineering & System Safety*, 202, 107010.
 10. Gámiz, M.L., López-Montoya, A.J., Martínez-Miranda, M.D. and Raya-Miranda, R. (2020). Data Visualization in Reliability of Repairable Systems: The SiZer Map Tool. In *Wiley StatsRef: Statistics Reference Online* (eds N. Balakrishnan, T. Colton, B. Everitt, W. Piegorisch, F. Ruggeri and J.L. Teugels)
 11. Gamiz, M.L., Lopez-Montoya, A.J., Martinez-Miranda, M..D., Raya-Miranda, R. (2019). Data visualization for reliability analysis of repairable systems. *Quality and Reliability Engineering International*, 35(1), 99-115.
 12. Gámiz, M. L., Martínez-Miranda, M. D., & Nielsen, J. P. (2019). Multiplicative local linear hazard estimation and best one-sided cross-validation. *Journal of Machine Learning Research*, 20(1), 651-650.
 13. Gámiz, M. L., Martínez-Miranda, M. D., & Raya-Miranda, R. (2018). Graphical goodness-of-fit test for mortality models. *Mathematical Population Studies*, 25(3), 123-142.
 14. Gámiz, M. L., Mammen, E., Miranda, M. D. M., & Nielsen, J. P. (2016). Double one-sided cross-validation of local linear hazards. *Journal of the Royal Statistical Society Series B: Statistical Methodology*, 78(4), 755-779.
 15. Dumitrescu, M., Gámiz, M. L., & Limnios, N. (2016). Minimum divergence estimators for the Radon–Nikodym derivatives of the semi-Markov kernel. *Statistics*, 50(3), 486-504.
 16. Gámiz, M. L., & Lindqvist, B. H. (2016). Nonparametric estimation in trend-renewal processes. *Reliability Engineering & System Safety*, 145, 38-46.
 17. López-Montoya, A. J., Gámiz-Pérez, M. L., & Martínez-Miranda, M. D. (2015). Local linear smoothing to estimate accelerated lifetime model with censoring and truncation. *Applied Mathematical Modelling*, 39(16), 4630-4645.
 18. Gámiz-Pérez, M. L., Janys, L., Miranda, M. D. M., & Nielsen, J. P. (2013). Bandwidth selection in marker dependent kernel hazard estimation. *Computational Statistics & Data Analysis*, 68, 155-169.
 19. Gámiz-Pérez, M. L., Martínez-Miranda, M. D. M., & Nielsen, J. P. (2013). Smoothing survival densities in practice. *Computational Statistics & Data Analysis*, 58, 368-382.
 20. Gamiz, M. L. (2012). Smoothed estimation of a 3-state semi-Markov reliability model. *IEEE Transactions on Reliability*, 61(2), 336-343.
 21. Gamiz, M. L. (2012). Weighted Estimation of Component Reliability in Series Systems. *IEEE Transactions on Reliability*, 61(3), 779-786.
 22. Gamiz, M. L., Kulasekera, K. B., Limnios, N., & Lindqvist, B. H. (2011). *Applied nonparametric statistics in reliability*. Springer Science & Business Media.
 23. Carrión, A., Solano, H., Gamiz, M. L., & Debón, A. (2010). Evaluation of the reliability of a water supply network from right-censored and left-truncated break data. *Water resources management*, 24, 2917-2935.
 24. Gámiz, M. L., & Miranda, M. M. (2010). Regression analysis of the structure function for reliability evaluation of continuous-state system. *Reliability Engineering & System Safety*, 95(2), 134-142.