

# Publications

## Preprints

- Gherardo Varando and Niels Richard Hansen, *Graphical continuous Lyapunov models*, 2018, [pdf](#)
- Cordoba I., G. Varando, C. Bielza, P. Larrañaga, *Generating random Gaussian graphical models*, 2019 [pdf](#)
- Varando G., C. Bielza, P. Larrañaga, E. Riccomagno, *Markov Property in Generative Classifiers*, 2018 [pdf](#)

## 2018

- Cordoba I., G. Varando, C. Bielza, P. Larrañaga, *A fast Metropolis-Hastings method for generating random correlation matrices*, IDEAL 2018, LNCS, Accepted, 2018, [pdf](#)
- Cordoba I., G. Varando, C. Bielza, P. Larrañaga, *A partial orthogonalization method for simulating covariance and concentration graph matrices*, PGM 2018: PMLR, 72:61-72, 2018. [pdf](#)
- Varando, G., R. Benavides-Piccione, A. Muñoz, A. Kastanauskaite, C. Bielza, P. Larrañaga, J. DeFelipe, *MultiMap: A tool to automatically extract and analyze spatial microscopic data from large stacks of confocal microscopy images*, Frontiers in Neuroanatomy, accepted, 2018 [pdf](#) | [data](#).

## 2016

- Varando, G., C. Bielza, and P. Larrañaga, *Decision Functions for Chain Classifiers based on Bayesian Networks for Multi-Label Classification*, International Journal of Approximate Reasoning, vol. 68, pp. 164-178, 2016 [pdf](#).

## 2015

- Varando, G., C. Bielza, and P. Larrañaga, *Decision Boundary for Discrete Bayesian Network Classifiers*, Journal of Machine Learning Research, vol. 16, pp. 2725-2749, 2015 [pdf](#).

- Borchani, H., G. Varando, C. Bielza, and P. Larrañaga, *A survey on multi-output regression*, WIREs Data Mining and Knowledge Discovery, vol. 5, pp. 216–233, 2015 [pdf](#).
- Varando, G., P. L. Lopez-Cruz, T. D. Nielsen, P. Larrañaga, and C. Bielza, *Conditional density approximations with mixtures of polynomials*, International Journal of Intelligent Systems, vol. 30, no. 3, pp. 236–264, 2015 [pdf](#).
- Varando, G., C. Bielza, and P. Larrañaga, *Expressive Power of Binary Relevance and Chain Classifiers Based on Bayesian Networks for Multi-Label Classification*, Lecture Notes in Artificial Intelligence, 8754: Springer, pp. 519–534, 2014 [pdf](#).