Diego Mesquita

Curriculum Vitae (last updated December 10, 2021)

diego.mesquita@aalto.fi
http://weakly-informative.github.io
@wkly_infrmtive

Education

Ph.D. in Computer Science 2017 - 2021
Aalto university, Finland. Supervisor: Samuel Kaski
Funding: HICT

M.Sc. in Computer Science 2016 - 2017
Federal University of Ceará, Brazil. Supervisor: João Gomes
Funding: CNPq

B.Sc. in Computer Science 2012 - 2016
Federal University of Ceará, Brazil

Scholarships, Honors and Awards

- PhD scholarship (HICT), 2017-2021
- M.Sc. scholarship (CNPq), 2016-2017
- Undergraduate research assistant (CNPq), 2015-2016
- Science Without Borders Scholarship (CAPES), 2014
- Undergraduate teaching assistant (Federal University of Ceará), 2013
- Young Talents for Science (CAPES), 2012-2013

Thesis Supervision

Former Students

1. Tuomas Aarnio, B.Sc. in Computer Science (Aalto university, 2021)
2. Tuomas Myllymäki, B.Sc in Computer Science (Aalto university, 2020)
3. Antti Kumpumäki, B.Sc. in Computer Science (Aalto university, 2019)

Teaching experience

During my PhD at Aalto university, I've served as a teaching assistant in large-scale (200–1000 students) data science/AI classes — Data Science, Machine Learning: Basic Principles, Machine Learning: Advanced Probabilistic Methods. This involved teaching in lab sessions and exercise lectures, as well as grading homeworks. Undergraduate level: Data Science.

Reviewing experience

I have reviewed for most top-tier Machine Learning conferences (NeurIPS, ICLR, UAI, and AISTATS). Additionally, I have also reviewed for journals like the Annals of Applied Probability, IEEE Transactions on Neural Networks and Learning systems, and Neurocomputing.

Journal Papers

1. D. Mesquita, J. Gomes, F. Corona, A. Souza, J. Nobre. Gaussian kernels for incomplete data. *IEEE Transactions on Neural Networks and Learning Systems*, 2019.
2. M. Veras, D. Mesquita, C. Mattos, J. Gomes. A sparse linear regression model for incomplete datasets. *Pattern Analysis and Applications*, 2019.
3. D. Mesquita, L. Freitas, J. Gomes, C. Mattos. LS-SVR as a Bayesian RBF network. *Applied Soft Computing*, 2019.
4. D. Mesquita, J. Gomes, L. Rodrigues. Artificial neural networks with random weights for incomplete datasets. *Neural Processing Letters*, 2019.

5. D. Mesquita, J. Gomes, L. Rodrigues, S. Oliveira, R. Galvão. Building selective ensembles of randomization based neural networks with the successive projections algorithm. *Applied Soft Computing*, 2018.
6. W. Caldas, J. Gomes, P. Mesquita. Fast Co-MLM: An efficient semi-supervised Co-training method based on the minimal learning machine. *New Generation Computing*, 2018.
7. D. Mesquita, J. Gomes, A. Souza. Ensemble of efficient minimal learning machines for regression and classification. *Neural Processing Letters*, 2017.
8. D. Mesquita, J. Gomes, F. Corona, A. Souza, J. Nobre. Euclidean distance estimation in incomplete datasets. *Neurocomputing*, 2017.
9. D. Mesquita, J. P. P. Gomes, A. H. Souza. Epanechnikov Kernel for Incomplete Data. *Electronics Letters*, 2017.
10. D. Mesquita, L. Rocha, J. Gomes, A. Neto. Classification with reject option for software defect prediction. *Applied Soft Computing*, 2016.

Conference Papers

1. ★ K. el Mekkaoui, D. Mesquita, P. Blomstedt, S. Kaski. Federated stochastic gradient Langevin dynamics. In *Uncertainty in Artificial Intelligence (UAI)*, 2021.
2. ★ D. Mesquita, A. Souza, S. Kaski. Rethinking pooling in graph neural networks. In *Neural Information Processing Systems (NeurIPS)*, 2020.
3. ★ D. de Souza, D. Mesquita, C. Mattos, J. Gomes. Learning GPLVM with arbitrary kernels using the unscented transformation . In *Artificial Intelligence and Statistics (AISTATS)*, 2020.
4. ★ D. Mesquita, P. Blomstedt, S. Kaski. Embarrassingly parallel MCMC with deep invertible transformations. In *Uncertainty in Artificial Intelligence (UAI)*, 2019.
5. M. Vera, Diego Mesquita, J. P. Gomes, A. Souza, G. A. Barreto. Forward Stagewise Regression on Incomplete Datasets. In *International Work-Conference on Artificial Neural Networks (IWANN)*, 2017.
6. J. Gomes, D. Mesquita, A. L. Freire, A. Souza, T. Karkkainen. A Robust Minimal Learning Machine based on the M-Estimator. In *European Symposium on Artificial Neural Networks (ESANN)*, 2017.
7. D. Mesquita, J. P. P. Gomes and A. H. Souza. A Minimal Learning Machine for datasets with missing values. In *International Conference on Neural Information Processing (ICONIP)*, 2015.
8. D. Mesquita, J. P. P. Gomes and A. H. Souza. Ensemble of Minimal Learning Machines for Pattern Classification. In *International Work-Conference on Artificial Neural Networks (IWANN)*, 2015.
9. D. Mesquita, J. Gomes, L. Rodrigues. K-means for Datasets with Missing Attributes: Building Soft Constraints with Observed and Imputed Values. In *European Symposium on Artificial Neural Networks (ESANN)*, 2016.
10. D. Mesquita, A. Neto, J. Neto, J. Gomes, L. Rodrigues. Using Robust Extreme Learning Machines to Predict Cotton Yarn Strength and Hairiness. In *European Symposium on Artificial Neural Networks (ESANN)*, 2016.