Yusuf Yiğit PİLAVCI

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Education

2019 – 2022	🔖	**PhD Candidate**, Université Grenoble Alpes, GIPSA Lab Thesis title: *Wilson's Algorithm for Randomized Linear Algebra* Supervised by Nicolas Tremblay, Simon Barthelmé and Pierre-Olivier Amblard.
2017 – 2019	🔖	**M.Sc. in Computer Science and Engineering**, Politecnico di Milano Final Grade: 108.0 / 110 Thesis: *Random Spanning Forests, Theory and Applications*
2012 – 2017	🔖	**Bachelor's degree in Electrical and Electronics Engineering** in Middle East Technical University. CGPA: 3.79 / 4.00 (10th/375)
2014 – 2017	🔖	**Minor degree in Computer Engineering** in Middle East Technical University.

Research Publications

Journal Articles

1. Y. Y. Pilavci, P.-O. Amblard, S. Barthelme, and N. Tremblay, "Graph tikhonov regularization and interpolation via random spanning forests," *IEEE Transactions on Signal and Information Processing over Networks*, 2021.

2. M. Turan, Y. Y. Pilavci, I. Ganiyusufoglu, H. Araujo, E. Konukoglu, and M. Sitti, "Sparse-then-dense alignment-based 3d map reconstruction method for endoscopic capsule robots," *Machine Vision and Applications*, vol. 29, no. 2, pp. 345–359, 2018.

Conference Proceedings

1. Y. Y. Pilavci, P.-O. Amblard, S. Barthelme, and N. Tremblay, "Variance Reduction for Inverse Trace Estimation via Random Spanning Forests," in *GRETSI 2022 - XXVIIIème Colloque Francophone de Traitement du Signal et des Images*, Nancy, France, Sep. 2022.

2. Y. Pilavcı, P.-O. Amblard, S. Barthelmé, and N. Tremblay, "Variance reduction in stochastic methods for large-scale regularised least-squares problems," in *30th European Signal Processing Conference, (EUSIPCO)*, 2022.

3. Y. Y. Pilavci, P.-O. Amblard, S. Barthelme, and N. Tremblay, "Smoothing graph signals via random spanning forests," in *ICASSP 2020- 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, IEEE, 2020, pp. 5630–5634.

4. Y. Y. Pilavci and N. Farrugia, "Spectral graph wavelet transform as feature extractor for machine learning in neuroimaging," in *ICASSP 2019- 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, IEEE, 2019, pp. 1140–1144.

Preprints

1. Y. Y. Pilavci, E. T. Guneyi, C. Cengiz, and E. Vural. (2019). Graph domain adaptation with localized graph signal representations.

Advance Courses

25-29 Jan. 2021	**Mathematics, Signal Processing and Learning**, CIRM, Marseille/France A research school on basics and various advanced topics in machine learning, signal processing, and optimization.
04-07 Apr. 2022	**Statlearn'22** Cargése/France A spring school on basics and various advanced topics in statistics and optimization.

Skills

Languages	Turkish (Maternal), English (Fluent), French (Beginner)
Coding	Python, Julia, C/C++
Software	Matlab, LaTeX

Industrial Experience

2017 Feb. - May.	**Candidate Engineer, ASELSAN, Ankara/Turkey** Trained and worked as a software engineer by using C++/C, Unix and Java.
2016 Jun. - Jul.	**Summer Intern, ASELSAN, Ankara/Turkey** Studied and observed on Real Time Operating Systems on multi-core processors.
	Summer Intern, Huawei, Ankara/Turkey Studied and observed on fiber optical transmission systems and signal modulations.

References

Available on Request