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PUBLICATIONS

First Author Papers.

1. Block Coordinate Descent on Smooth Manifolds
[LP](#) and René Vidal
[\[Preprint\]](#) [\[arXiv\]](#)
2. The Ideal Continual Learner: An Agent That Never Forgets
[LP](#), Paris V. Giampouras, and René Vidal
[\[ICML 2023\]](#) [\[OpenReview\]](#) [\[CLVision Workshop 2023\]](#) [\[arXiv\]](#) [\[bib\]](#)
3. On the Convergence of IRLS and Its Variants in Outlier-Robust Estimation
[Highlight, 235/9155 \$\approx\$ 2.5% Acceptance Rate](#)
[LP](#), Christian Kümmerle, and René Vidal
[\[CVPR 2023\]](#) [\[pdf\]](#) [\[video\]](#) [\[slides\]](#) [\[bib\]](#)
4. Global Linear and Local Superlinear Convergence of IRLS for Non-Smooth Robust Regression
[LP](#), Christian Kümmerle, and René Vidal
[\[NeurIPS 2022\]](#) [\[OpenReview\]](#) [\[arXiv\]](#) [\[code\]](#) [\[bib\]](#)
5. Semidefinite Relaxations of Truncated Least-Squares in Robust Rotation Search: Tight or Not
[Oral Presentation, 158/5803 \$\approx\$ 2.7% Acceptance Rate](#)
[LP](#), Mahyar Fazlyab, and René Vidal
[\[ECCV 2022\]](#) [\[arXiv\]](#) [\[slides\]](#) [\[poster\]](#) [\[talk video\]](#) [\[bib\]](#)
6. ARCS: Accurate Rotation and Correspondence Search
[Oral Presentation, 342/8161 \$\approx\$ 4.2% Acceptance Rate](#)
[LP](#), Manolis C. Tsakiris, and René Vidal
[\[CVPR 2022\]](#) [\[arXiv\]](#) [\[code\]](#) [\[slides\]](#) [\[talk video\]](#) [\[bib\]](#)
7. Homomorphic Sensing: Sparsity and Noise
[LP](#), Boshi Wang, and Manolis C. Tsakiris
[\[ICML 2021\]](#) [\[pdf\]](#) [\[talk video\]](#) [\[bib\]](#)
8. Algebraically-Initialized Expectation Maximization for Header-Free Communication
[LP](#), Xuming Song, Manolis C. Tsakiris, Hayoung Choi, Laurent Kneip, and Yuanming Shi
[\[ICASSP 2019\]](#) [\[pdf\]](#) [\[bib\]](#)
9. Homomorphic Sensing of Subspace Arrangements
 Applied and Computational Harmonic Analysis, 2021
[LP](#) and Manolis C. Tsakiris
[\[arXiv\]](#) [\[bib\]](#)
10. Linear Regression Without Correspondences via Concave Minimization
 IEEE Signal Processing Letters, 2020
[LP](#) and Manolis C. Tsakiris
[\[arXiv\]](#) [\[code\]](#) [\[bib\]](#)

Other Papers.

1. Efficient and Robust Point Cloud Registration via Heuristics-based Parameter Search
Tianyu Huang, Haoang Li, **LP**, Yinlong Liu, and Yun-Hui Liu
[Preprint]
Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence
2. Outlier-Robust Orthogonal Regression on Manifolds
Tianjiao Ding, **LP**, and René Vidal
[Preprint]
3. Accelerating Globally Optimal Consensus Maximization in Geometric Vision
Xinyue Zhang, **LP**, Wanting Xu, and Laurent Kneip
[Preprint] [arXiv]
Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence
4. HARD: Hyperplane ARangement Descent
Tianjiao Ding, **LP**, and René Vidal
[Preprint]
5. Unlabeled Principal Component Analysis and Matrix Completion
Yunzhen Yao, **LP**, and Manolis C. Tsakiris
[Preprint]
Submitted to Journal of Machine learning Research
6. Unlabeled Principal Component Analysis
Yunzhen Yao, **LP**, and Manolis C. Tsakiris
[NeurIPS 2021] [OpenReview] [arXiv] [code] [bib]
7. Unsigned Matrix Completion
Yunzhen Yao, **LP**, and Manolis C. Tsakiris
[ISIT 2021] [pdf] [bib]
8. Homomorphic Sensing
Manolis C. Tsakiris and **LP**
[ICML 2019] [arXiv] [code] [bib]
9. An Algebraic-Geometric Approach to Linear Regression Without Correspondences
IEEE Transactions on Information Theory, 2020
Manolis C. Tsakiris, **LP**, Aldo Conca, Laurent Kneip, Yuanming Shi, and Hayoung Choi
[arXiv] [code] [bib]