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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] [poster]
3. On the Convergence of IRLS and Its Variants in Outlier-Robust Estimation
[Highlight, 235/9155≈2.5% Acceptance Rate](#)
LP, Christian Kümmerle, and René Vidal
 [CVPR 2023] [pdf] [talk video] [slides] [poster]
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] [slides] [poster]
5. Semidefinite Relaxations of Truncated Least-Squares in Robust Rotation Search: Tight or Not
[Oral Presentation, 158/5803≈2.7% Acceptance Rate](#)
LP, Mahyar Fazlyab, and René Vidal
 [ECCV 2022] [arXiv] [slides] [talk video] [poster]
6. ARCS: Accurate Rotation and Correspondence Search
[Oral Presentation, 342/8161≈4.2% Acceptance Rate](#)
LP, Manolis C. Tsakiris, and René Vidal
 [CVPR 2022] [arXiv] [code] [slides] [talk video] [poster]
7. Homomorphic Sensing: Sparsity and Noise
LP, Boshi Wang, and Manolis C. Tsakiris
 [ICML 2021] [pdf] [talk video]
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]
9. Homomorphic Sensing of Subspace Arrangements
 Applied and Computational Harmonic Analysis, 2021
LP and Manolis C. Tsakiris
 [arXiv]
10. Linear Regression Without Correspondences via Concave Minimization
 IEEE Signal Processing Letters, 2020
LP and Manolis C. Tsakiris
 [arXiv] [code]

Other Papers.

1. Accelerating Globally Optimal Consensus Maximization in Geometric Vision
Xinyue Zhang, **LP**, Wanting Xu, and Laurent Kneip
[Preprint] [arXiv]
2. Unlabeled Principal Component Analysis
Yunzhen Yao, **LP**, and Manolis C. Tsakiris
[NeurIPS 2021] [OpenReview] [arXiv] [code]
3. Unsigned Matrix Completion
Yunzhen Yao, **LP**, and Manolis C. Tsakiris
[ISIT 2021] [pdf]
4. Homomorphic Sensing
Manolis C. Tsakiris and **LP**
[ICML 2019] [arXiv] [code]
5. 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]