LIANGZU PENG

[Homepage] [OpenReview] [Google Scholar] [lpenn@seas.upenn.edu] [+1 (667) 910 4063]

PUBLICATIONS

First Author Papers.

1. Block Coordinate Descent on Smooth Manifolds

<u>LP</u> 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

<u>LP</u>, Boshi Wang, and Manolis C. Tsakiris

[ICML 2021] [pdf] [talk video]

8. Algebraically-Initialized Expectation Maximization for Header-Free Communication

 $\underline{\textit{LP}}$, 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, <u>LP</u>, Wanting Xu, and Laurent Kneip [Preprint] [arXiv]

2. HARD: Hyperplane ARangement Descent

Tianjiao Ding, <u>LP</u>, and René Vidal [Preprint]

3. Unlabeled Principal Component Analysis

Yunzhen Yao, *LP*, and Manolis C. Tsakiris [NeurIPS 2021] [OpenReview] [arXiv] [code]

4. Unsigned Matrix Completion

Yunzhen Yao, *LP*, and Manolis C. Tsakiris [ISIT 2021] [pdf]

5. Homomorphic Sensing

Manolis C. Tsakiris and <u>LP</u>
[ICML 2019] [arXiv] [code]

6. 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]