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Preprint

2. K. Haishima, **K. Suzuki**, and K. Slavakis, "External Division of Two Bregman Proximity Operators for Poisson Inverse Problems," [arXiv:2602.11482](#), 2026.
1. **K. Suzuki** and K. Slavakis, "Nonconvex Regularization for Feature Selection in Reinforcement Learning," [arXiv:2509.15652](#), 2025.

Journal Articles

5. **K. Suzuki** and M. Yukawa, "External Division of Two Proximity Operators—Part II: Generalization and Properties," *IEEE Trans. Signal Process.*, vol. 74, pp. 167–182, 2026. [official access](#)
4. **K. Suzuki** and M. Yukawa, "External Division of Two Proximity Operators—Part I: Debiased Feature Grouping," *IEEE Trans. Signal Process.*, vol. 74, pp. 150–166, 2026. [official access](#)
3. M. Yukawa, H. Kaneko, **K. Suzuki**, and I. Yamada, "Linearly-Involved Moreau-Enhanced-Over-Subspace Model: Debiased Sparse Modeling and Stable Outlier-Robust Regression," *IEEE Trans. Signal Process.*, vol. 71, pp. 1232–1247, 2023. [official access](#)
2. **K. Suzuki** and M. Yukawa, "Sparse Stable Outlier-Robust Signal Recovery Under Gaussian Noise," *IEEE Trans. Signal Process.*, vol. 71, pp. 372–387, 2023. [official access](#)
1. **K. Suzuki** and M. Yukawa, "Robust Recovery of Jointly-Sparse Signals Using Minimax Concave Loss Function," *IEEE Trans. Signal Process.*, vol. 69, pp. 669–681, 2021 (publication: Dec. 2020). [official access](#)

Peer-Reviewed Conference Proceedings

8. **K. Suzuki** and K. Slavakis, "Nonconvex Regularization for Feature Selection in Reinforcement Learning," in *Proc. IEEE Int. Conf. Acoust., Speech, Signal Process. (ICASSP)*, Barcelona, Spain, 2026, accepted.
7. **K. Suzuki** and M. Yukawa, "Sparse Signal Recovery Based on Lower-semicontinuous 1-weakly-convex Envelope of a Marginal Function," in *Proc. IEEE Int. Conf. Acoust., Speech, Signal Process. (ICASSP)*, Barcelona, Spain, 2026, accepted.
6. **K. Suzuki** and M. Yukawa, "A discrete measure for debiased feature grouping: A limit of Moreau-enhanced OSCAR regularizer and its proximity operator," in *Proc. Eur. Signal Process. Conf. (EUSIPCO)*, pp. 2467–2471, Palermo, Italy, 2025. [official access](#)
5. **K. Suzuki** and M. Yukawa, "External Division of Two Proximity Operators: An Application to Signal Recovery with Structured Sparsity," in *Proc. IEEE Int. Conf. Acoust., Speech, Signal Process. (ICASSP)*, Seoul, Korea, pp. 9471–9475, Apr. 2024. [official access](#)
4. M. Yukawa, **K. Suzuki**, and I. Yamada, "Stable Robust Regression under Sparse Outlier and Gaussian Noise," in *Proc. Eur. Signal Process. Conf. (EUSIPCO)*, pp. 2236–2240, Aug.–Sep. 2022. [official access](#)
3. **K. Suzuki** and M. Yukawa, "Sparse Stable Outlier-Robust Regression with Minimax Concave Function," in *Proc. IEEE Int. Workshop Mach. Learn. Signal Process. (MLSP)*, 6 pages, Aug. 2022. [official access](#)
2. **K. Suzuki** and M. Yukawa, "On Grouping Effect of Sparse Stable Outlier-Robust Regression," in *Proc. IEEE Int. Workshop Mach. Learn. Signal Process. (MLSP)*, 6 pages, Aug. 2022. [official access](#)

1. **K. Suzuki** and M. Yukawa, "Robust Jointly-Sparse Signal Recovery Based on Minimax Concave Loss Function," in *Proc. Eur. Signal Process. Conf. (EUSIPCO)*, pp. 2070–2074, Jan. 2021. [official access](#)

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8. **K. Suzuki** and K. Slavakis, "Feature Selection in Reinforcement Learning via Projected Minimax Concave Penalty," in *Proc. IEICE Signal Processing Symposium*, Ibaraki, Japan, 6 pages, Nov. 2025.
7. **K. Suzuki** and M. Yukawa, "On the Proximity Operator of the Lower-semicontinuous 1-weakly-convex Envelope of a Marginal Function," in *Proc. IEICE Signal Processing Symposium*, Ibaraki, Japan, 6 pages, Nov. 2025.
6. **K. Suzuki** and M. Yukawa, "Bias Reduction for Feature Grouping Based on a Limit of Moreau-Enhanced OSCAR Regularizer," in *Proc. IEICE Signal Processing Symposium*, Sapporo, Japan, 6 pages, Dec. 2024.
5. T. Okuda, **K. Suzuki**, and M. Yukawa, "Sparse Signal Recovery Based on Continuous Relaxation of Reversely Ordered Weighted ℓ_1 Shrinkage Operator," in *Proc. IEICE Signal Processing Symposium*, Sapporo, Japan, 6 pages, Dec. 2024.
4. **K. Suzuki** and M. Yukawa, "Debiased Estimation of Signals with Structured Sparsity Based on External Division of Two Proximity Operators," in *Proc. IEICE Signal Processing Symposium*, Kyoto, Japan, 6 pages, Nov. 2023.
3. **K. Suzuki** and M. Yukawa, "Multiscale Manifold Clustering and Embedding with Multiple Kernels," in *Proc. IEICE Tech. Rep.*, vol. 122, no. 388, SIP2022-167, pp. 276–281, Okinawa, Japan, Mar. 2023.
2. **K. Suzuki** and M. Yukawa, "Sparse Stable Outlier-Robust Regression Using Minimax Concave Function," in *Proc. IEICE Signal Processing Symposium*, pp. 96–101, virtual (Zoom), Nov. 2021.
1. **K. Suzuki** and M. Yukawa, "A Robust Approach to Jointly-Sparse Signal Recovery Based on Minimax Concave Loss Function," in *Proc. IEICE Tech. Rep.*, vol. 119, no. 440, SIP2019-124, pp. 123–128, Okinawa, Japan (conference cancelled), Mar. 2020.

Talks

1. 鈴木京平, "ガウス性雑音環境下でのスパース安定頑健信号復元法", 第22回情報科学技術フォーラム (FIT2023), 大阪府堺市, 2023年9月, 招待講演.

Doctoral Dissertation

1. **K. Suzuki**, "[A study of robust debiasing methods for sparse modeling: Moreau enhancement and beyond](#)," Doctoral dissertation, Keio University, Sept. 2024.