

SAMRAT MUKHOPADHYAY

PUBLICATIONS

Journal Papers

Published

1. R.K. Yadav, H.B. Mishra, **S. Mukhopadhyay**, R. Mishra, “IRS-OTFS Systems: Design of Reflection Coefficients for Low-Complexity ZF Equalizer”, accepted for publication in *IEEE Transactions on Vehicular Technology*.
2. **S. Mukhopadhyay**, H.B.Mishra, “Multiple Choice Hard Thresholding Pursuit (MCHTP) for Simultaneous Sparse Recovery and Sparsity Order Estimation”, accepted for publication in *Elsevier, Signal Processing*.
3. R.K.Ranjan, A. Bhattacharya, **S. Mukhopadhyay**, and H. B. Mishra, “A GRADIENT ASCENT BASED LOW COMPLEXITY RATE MAXIMIZATION ALGORITHM FOR INTELLIGENT REFLECTING SURFACE-AIDED OFDM SYSTEMS”, *IEEE Communication Letters*, June, 2023.[[Impact Factor: 4.1, 2023](#)]
4. S. Kumari, M. Kumar Dikkala, **S. Mukhopadhyay**, and H. B. Mishra, “TWO CHOICE HARD THRESHOLDING PURSUIT (TCHTP) FOR DELAY-DOPPLER CHANNEL ESTIMATION IN OTFS”, *IEEE Wireless Communications Letters*, Early Access, March 2023.[[Impact Factor: 5.281, 2023](#)]
5. **S. Mukhopadhyay**, and M. Chakraborty, “DETERMINISTIC AND RANDOMIZED DIFFUSION BASED ITERATIVE GENERALIZED HARD THRESHOLDING (DiFIGHT) FOR DISTRIBUTED SPARSE SIGNAL RECOVERY”, *IEEE Transactions on Signal and Information Processing over Networks*, vol 8, November [[Impact factor: 3.664, 2021](#)]
6. **S. Mukhopadhyay**, and M. Chakraborty, “A TWO STAGE GENERALIZED BLOCK ORTHOGONAL MATCHING PURSUIT (TSGBOMP) ALGORITHM”, *Transactions on Signal Processing, IEEE*, vol 69, September 2021, pp 5846-5858.[[Impact factor: 4.931 \(2021\)](#)]
7. **S. Mukhopadhyay**, “SPARSE RECOVERY ANALYSIS OF GENERALIZED J -MINIMIZATION WITH RESULTS FOR SPARSITY PROMOTING FUNCTIONS WITH MONOTONIC ELASTICITY”, *Signal Processing, Elsevier*, vol 180, No. 107853, March, 2021, <https://doi.org/10.1016/j.sigpro.2020.107853>. [[Impact factor: 4.384 \(2020\)](#)]
8. **S. Mukhopadhyay**, “ON THE MMSE ESTIMATION OF NORM OF A GAUSSIAN VECTOR UNDER ADDITIVE WHITE GAUSSIAN NOISE WITH RANDOMLY MISSING INPUT ENTRIES”, *Signal Processing, Elsevier*, vol 179, No. 107848, February, 2021, <https://doi.org/10.1016/j.sigpro.2020.107848>. [[Impact factor: 4.384 \(2020\)](#)]
9. **S. Mukhopadhyay** and A. Mukherjee, “IMDLMS: AN IMPUTATION BASED LMS ALGORITHM FOR LINEAR SYSTEM IDENTIFICATION WITH MISSING INPUT DATA”, *Transactions on Signal Processing, IEEE*, vol 68, issue 1, December 2020, pp 2370-2385.[[Impact factor: 5.028 \(2020\)](#)]
10. **S. Mukhopadhyay**, “STOCHASTIC GRADIENT DESCENT FOR LINEAR SYSTEMS WITH SEQUENTIAL MATRIX ENTRY ACCUMULATION”, *Signal Processing, Elsevier*, vol 171, No. 107494, June 2020, <https://doi.org/10.1016/j.sigpro.2020.107494>. [[Impact factor: 4.384 \(2020\)](#)]

11. **S. Mukhopadhyay**, S. Satpathi, and M. Chakraborty, "A MODIFIED MULTIPLE OLS (m^2 OLS) ALGORITHM FOR SIGNAL RECOVERY IN COMPRESSIVE SENSING", *Signal Processing, Elsevier*, vol 168, no. 107337, March 2020, <https://doi.org/10.1016/j.sigpro.2019.107337>. [Impact factor: 4.384 (2020)]
12. **S. Mukhopadhyay**, M.J. Pramod, and A. Kumar, "APPROXIMATE MEAN DELAY ANALYSIS FOR A SIGNALIZED INTERSECTION WITH INDISCIPLINED TRAFFIC", *Transactions on Intelligent Transportation Systems, IEEE*, vol 18, issue 10, October, 2017, pp 2750-2762. [Impact factor: 6.319 (2020)]

Referred Conference Papers

Published

1. R. Ranjan, A. Bhattacharya, H.B. Mishra, **S. Mukhopadhyay**, "A LOW-COMPLEXITY IRS PHASE SHIFT OPTIMIZATION TO ACHIEVE SECURITY IN IRS-ASSISTED MISO SYSTEMS", *National Conference on Communications (NCC)*, March, 2024.
2. S. Kumari, H.B. Mishra, **S. Mukhopadhyay**, "GREEDY SPARSE CHANNEL ESTIMATION FRAMEWORK FOR MULTI-USER OTFS SYSTEMS", *National Conference on Communications (NCC)*, March, 2024.
3. A. K. Shrivastava, S. Kumar, K. Sahu, B. Sonwani, D. Sharma, D. S. Srivastava, N. Garg, A. Kherani, V. Bhatia, S. Mukherjee, **S. Mukhopadhyay**, P. Das, R. Mahapatra, D. Das and B. Lall, "TSDSI STANDARDS DRIVEN IMPLEMENTATION OF SMART RADIO ENVIRONMENT", *IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS*, December, 2023.
4. S. Kumari, H. B. Mishra, and **S. Mukhopadhyay**, "PEAK-TO-AVERAGE POWER RATIO ANALYSIS FOR EMBEDDED PILOT AND SUPERIMPOSED PILOT AIDED OTFS WAVEFORM", accepted in *IEEE Guwahati Sub-section Conference, GCON*, June, 2023.
5. **S. Mukhopadhyay**, "ON THE EFFECTIVE SAMPLE COMPLEXITY FOR EXACT SPARSE RECOVERY FROM SEQUENTIAL LINEAR MEASUREMENTS", *International Conference on Signal Processing and Communications (SPCOM)*, July 2022, Bangalore, India [SJR 2019: 0.23, h-index: 7].
6. **S. Mukhopadhyay**, S. Sahoo, and A. Sinha, " k -EXPERTS- ONLINE POLICIES AND FUNDAMENTAL LIMITS", *Artificial Intelligence and Statistics Conference (AISTATS)*, March 2022 (Held virtually due to COVID 19 Pandemic) Preprint at <https://arxiv.org/abs/2110.07881> [SJR 2020: 0.44, h-index: 25].
7. **S. Mukhopadhyay**, and A. Sinha, "ONLINE CACHING WITH OPTIMAL SWITCHING REGRET", *2021 International Symposium on Information Theory (ISIT)*, Melbourne, Australia, July, 2021. (Held virtually) Preprint at <https://arxiv.org/abs/2101.07043>. [SJR 2019: 0.91, h-index: 82]
8. **S. Mukhopadhyay**, and M. Chakraborty, "REGULARIZED HARD THRESHOLDING PURSUIT (RHTP) FOR SPARSE SIGNAL RECOVERY", *2020 International Conference on Signal Processing and Communications (SPCOM)*, July 2020, Bangalore, India, pp. 1-5, doi: 10.1109/SPCOM50965.2020.9179515. [SJR 2019: 0.23, h-index: 7].
9. **S. Mukhopadhyay**, S. Satpathi, and M. Chakraborty, "A LOW COMPLEXITY ORTHOGONAL LEAST SQUARES ALGORITHM FOR SPARSE SIGNAL RECOVERY", *2018 International Conference on Signal Processing and Communications (SPCOM)*, July 2018, Bangalore, India, pp. 75-79, doi: 10.1109/SPCOM.2018.8724462. [SJR 2019: 0.23, h-index: 7].

10. B.K. Das, **S. Mukhopadhyay**, and M. Chakraborty; “ROBUST ADAPTIVE FILTERING VIA CONVEX COMBINATION OF L0-RLS ADAPTIVE FILTERS”, *2018 IEEE International Symposium on Circuits and Systems (ISCAS)*, May 2018, Florence, Italy, pp. 1-5, doi: 10.1109/ISCAS.2018.8351617. [SJR 2019: 0.29, h-index: 69].
11. **S. Mukhopadhyay**, M.J. Pramod, and A. Kumar, “AN APPROACH FOR ANALYSIS OF MEAN DELAY AT A SIGNALIZED INTERSECTION WITH INDISCIPLINED TRAFFIC”, *2015 7th International Conference on Communication Systems and Networks (COMSNETS)*, Jan 2015, Bangalore, India, pp. 1-6, doi: 10.1109/COMSNETS.2015.7098702 [SJR 2016: 0.15, h-index: 8].