

List of Publications/Preprints (Written as a First/Corresponding Author)

- (1) **Antony Selvan, A.** and Radha, R. Sampling and reconstruction in shift-invariant spaces on $\mathbb{R}^d$, *Annali di Matematica Pura ed Applicata*, 194 (4). no. 6, 1683-1706, 2015. (**Q1, IF-1.0, MCQ-0.95**)
- (2) **Antony Selvan, A.** and Radha, R. Sampling and reconstruction in shift-invariant spaces of B -spline functions, *Acta Applicandae Mathematicae*, 145, 175-192, 2016. (**Q2, IF-1.4, MCQ-1.04**)
- (3) **Antony Selvan, A.** and Radha, R. Separation of zeros and a Hermite interpolation based frame algorithm for bandlimited functions, *Sampling Theory in Signal and Image Processing*, 15, 21-35, 2016. (**MCQ-0.78**)
- (4) **Antony Selvan, A.** and Radha, R. Invertibility of a tridiagonal operator with an application to a non-uniform sampling problem, *Linear and Multilinear Algebra*, 65(5), 973-999, 2017. (**Q1, IF-0.9, MCQ-0.68**)
- (5) **Antony Selvan, A.** and Radha, R. Frames in Hermite-Bergman and special Hermite-Bergman spaces, *Journal of Pseudo-Differential Operators and Applications*, 8(2), 241-254, 2017. (**Q2, IF-0.9, MCQ-0.69**)
- (6) **Antony Selvan, A.** and Radha, R. An optimal result for sampling density in shift-invariant spaces generated by Meyer scaling function, *Journal of Mathematical Analysis and Applications*, 451(1), 197-208, 2017. (**Q1, IF-1.2, MCQ-0.98**)
- (7) Ghosh, R. and **Antony Selvan, A.** Exponential type bases on a finite union of certain disjoint intervals of equal length, *Banach Journal of Mathematical Analysis*, 16:53, 2022. (**Q1, IF-1.1, MCQ-0.71**)
- (8) **Antony Selvan, A.** and Ghosh, R. Sampling with derivatives in periodic shift-invariant spaces, *Numerical Functional Analysis and Optimization*, 43(13), 1591-1615, 2022. (**Q2, IF-1.4, MCQ-0.56**)
- (9) **Antony Selvan, A.** and Priyanka, K. Perturbation theorems for regular sampling in wavelet subspaces, *Acta Applicandae Mathematicae*, 182(1), 8, 2022. (**Q2, IF-1.4, MCQ-1.04**)
- (10) Bharanedhar, S.V., **Antony Selvan, A.**, and Ghosh, R. Zeros of self-inversive polynomials with an application to sampling theory, *Applied Mathematics and Computation*, 439, 127547, 2023. (**Q1, IF-3.5, MCQ-0.61**)
- (11) Ghosh, R. and **Antony Selvan, A.** Sampling and interpolation of periodic nonuniform samples involving derivatives, *Results in Mathematics*, 78(2), 52, 2023. (**Q1, IF-1.2, MCQ-0.71**)
- (12) Priyanka, K. and **Antony Selvan, A.** Derivative sampling expansions in shift-invariant spaces with error estimates covering discontinuous signals, *IEEE Transactions on Information Theory*, 70(8), 5453-5470, 2024. (**Q2, IF-2.2, MCQ-1.07**)
- (13) Ghosh, R. and **Antony Selvan, A.** On Gabor frames generated by totally positive functions, B -splines, and Hermite functions, *Applied Numerical Mathematics*, 207, 1-23, 2025. (**Q1, IF-2.2, MCQ-1.18**)
- (14) Priyanka, K. and **Antony Selvan, A.** Sampling with derivatives in finitely generated shift-invariant spaces, Submitted to a journal, 2024.
- (15) Ghosh, R. and **Antony Selvan, A.** Obstructions for Gabor frames of the second order B -spline, arXiv preprint arXiv:2310.01141. (**Best Poster Presentation (ARI-NUHAG Award First Prize)**, Strobl24, More on Harmonic Analysis, Austria, Europe, July 9-15, 2024, presented by Riya Ghosh).
- (16) Priyanka, K. and **Antony Selvan, A.** Construction of irregular complete interpolation sets for shift-invariant spaces, arXiv:2408.09099, 2024.

- (17) **Antony Selvan, A.**, Ayush Bhandari, and Radha, R. Approximation from shift-invariant spaces with smooth generators, Preprint, 2024.
- (18) **Antony Selvan, A.** and Ghosh, R. Beurling-Landau type theorems in Fractional Fourier transform domain, Preprint, 2024.