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List of Publications

[1] Parameter-uniform convergence analysis of a domain decomposition method for singularly perturbed parabolic problems with Robin boundary conditions. **Journal of Applied Mathematics and Computing**, 69(2) (2023) 2239-2261 (with S. Kumar, J. Singh and H. Ramos) **doi:**`https://doi.org/10.1007/s12190-022-01832-w`.

[2] An efficient numerical method for coupled systems of singularly perturbed parabolic delay problems. **Computational and Applied Mathematics**, 41(1) (2022) 1-29 (with S. Kumar and J. Singh) **doi:**`https://doi.org/10.1007/s40314-021-01733-x`.

[3] Additive schemes based domain decomposition algorithm for solving singularly perturbed parabolic reaction-diffusion systems. **Computational and Applied Mathematics**, 40 (2021) 1-15 (with J. Singh and S. Kumar) **doi:**`https://doi.org/10.1007/s40314-021-01457-y`.

[4] A robust numerical method for a coupled system of singularly perturbed parabolic delay problems. **Engineering Computations**, 38(2) (2021) 964-988 (with M. Kumar, J. Singh and S. Kumar) **doi:**`https://doi.org/10.1108/EC-04-2020-0191`.

[5] An efficient parameter uniform domain decomposition algorithm for singularly perturbed semilinear coupled systems of parabolic problems, communicated (with S. Kumar).

[6] A robust convergent domain decomposition algorithm for a time delayed singularly perturbed parabolic problem with Robin boundary conditions, communicated (with S. Kumar).

[7] A higher order convergent domain decomposition method for a fourth order singularly perturbed boundary value problem, manuscript in preparation.
