

Journal Publications

- [1] V. Sharma, and D. Kumar, “Confined Frequency-Interval Gramian Framework-Based Balanced Model Reduction,” *IETE Journal of Research*, vol. no., pp 1-10, 2023 (in press) DOI: [10.1080/03772063.2023.2288293](https://doi.org/10.1080/03772063.2023.2288293)
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- [3] T. Veerendar, **D. Kumar**, and V. Sreeram, “Maiden application of colliding bodies optimizer for LFC of two-area non-reheated thermal and hydro-thermal power systems,” *Asian Journal of Control*, pp. 1–13, 2023. DOI: [10.1002/asjc.3096](https://doi.org/10.1002/asjc.3096)
- [4] T. Veerendar, **D. Kumar**, and A. K. Gupta, “Quasi-oppositional African vultures optimization-based $PI^{\lambda}D^{\mu}$ plus PI^{λ} controller for frequency control of an interlinked hybrid power system,” *Electric Power Components and Systems*, vol. 51, no. 13, pp. 1219–1239, 2023. DOI: [10.1080/15325008.2023.2191249](https://doi.org/10.1080/15325008.2023.2191249)
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Book Chapter Publications:

- [1] C. N. Singh, A. K. Gupta, **D. Kumar**, and P. Samuel, "A Mixed Approach for Model Reduction Using Differential Evolution and Eigen Permutation," *In Intelligent Algorithms*

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- [4] A. K. Gupta, P. Samuel, and **D. Kumar**, “Speed Control of PMSM Drive Using Jaya Optimization Based Model Reduction,” *In Intelligent Computing Techniques for Smart Energy Systems*, pp. 247-256. Springer, Singapore, 2020. DOI: [10.1007/978-981-15-0214-9_29](https://doi.org/10.1007/978-981-15-0214-9_29), ISBN: 978-981-15-0214-9

Conference Publications

- [1] S. Gehlaut, **D. Kumar**, C. N. Singh, and A. K. Gupta, “Jaya optimization-based approximation of LTI systems using stability equations,” *In proc. 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON)*, 2023, pp. 1-5. DOI: [10.1109/PIECON56912.2023.10085851](https://doi.org/10.1109/PIECON56912.2023.10085851)
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