

SUMMARY:

International Journal (SCIE/ESI/Scopus):	38	Book Chapter:	06
International Conference:	62	National Conference:	06

JOURNAL PUBLICATIONS

- [1] Khushboo Kumari, Akanksha Singh, Shekahr Gehlaut, and **Deepak Kumar**, Arvind Kumar Prajapati, Jitendra Bahadur, Sumit Gupta, “Pelican Optimization-Driven Two-Degree-of-Freedom IMC Design for Output Voltage Regulation of SEPIC Converter,” *Results in Engineering*, vol. 32, 111687, 2026. DOI: [10.1016/j.rineng.2026.111687](https://doi.org/10.1016/j.rineng.2026.111687), [Scopus, ESCI], (Impact Factor: 9.4).
- [2] Tejavath Veerendar, **Deepak Kumar**, K Shivashanker, and Ravi Bhushan, “Enhancing frequency stability of multi-area renewable power systems using artificial ecosystem optimizer-based cascade control,” *Journal of Renewable and Sustainable Energy*, vol. 18, no. 2, 026305, 2026. DOI: [10.1063/5.0317887](https://doi.org/10.1063/5.0317887), [SCIE], (Impact Factor: 2.4).
- [3] Vineet Sharma, and **Deepak Kumar**, “Enhanced Frequency-Weighted and Frequency Interval Gramians based Balanced Truncation,” *New Mathematics and Natural Computation*, pp. 1- 16, 2025. DOI: [10.1142/S1793005727500268](https://doi.org/10.1142/S1793005727500268), [ESCI], (Impact Factor: 1.1).
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- [6] Shekhar Gehlaut, and **Deepak Kumar**, “Salp Swarm Optimization-Based Approximation of Fractional-Order Systems with Guaranteed Stability,” *Circuits, Systems, and Signal Processing*, vol. 43, pp 3440–3460, 2024. DOI: [10.1007/s00034-024-02620-6](https://doi.org/10.1007/s00034-024-02620-6), [Scopus, SCIE], (Impact Factor: 2.5).

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- [8] Tejavath Veerendar, and **Deepak Kumar**, “Teaching-learning optimizer-based FO-PID for load frequency control of interlinked power systems,” *International Journal of Modelling and Simulation*,” vol. 43, no. 5, pp. 683–705, 2023. DOI: [10.1080/02286203.2022.2112009](https://doi.org/10.1080/02286203.2022.2112009), [Scopus, ESCI], (Impact Factor: 3.9).
- [9] Tejavath Veerendar, **Deepak Kumar**, and Victor Sreeram, “Maiden application of colliding bodies optimizer for LFC of two-area non-reheated thermal and hydro-thermal power systems,” *Asian Journal of Control*, vol. 25, no. 5, pp. 3443–3455, 2023. DOI: [10.1002/asjc.3096](https://doi.org/10.1002/asjc.3096), [SCIE], (Impact Factor: 2.0).
- [10] Tejavath Veerendar, **Deepak Kumar**, and Akhilesh Kumar 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), [Scopus, SCIE], (Impact Factor: 1.5).
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BOOK CHAPTER PUBLICATIONS:

- [1] K. Kanchan, and **D. Kumar**, “Singular Perturbation Approximation-Based Modelling Using Frequency-Limited Balanced Gramians,” In *Communication and Intelligent Systems*, pp. 295-302, Springer, Singapore, 2023. DOI: [10.1007/978-981-97-2053-8_22](https://doi.org/10.1007/978-981-97-2053-8_22).
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for *Smart Energy Systems*, pp. 257-267. Springer, Singapore, 2020. DOI: [10.1007/978-981-15-0214-9_30](https://doi.org/10.1007/978-981-15-0214-9_30), ISBN: 978-981-15-0214-9.

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CONFERENCE PUBLICATIONS

- [1] Shivendra Chaurasia, Gaurav Kumar Rai, and **Deepak Kumar**, “Enhanced Multi-Strategy Bidirectional RRT* Framework for Optimal Path Planning,” In Proc. 2026 IEEE Guwahati Subsection Conference (GCON), 2026.
- [2] Navneet Pathak, and **Deepak Kumar**, “Adaptive Super Twisting Sliding Mode Control for Robust Yaw Stabilization of Twin Rotor MIMO System,” In Proc. 2026 IEEE Guwahati Subsection Conference (GCON), 2026.
- [3] **Deepak Kumar**, and Kumari Kanchan, “Singular perturbation approximation based Frequency-limited Gramian Framework for Continuous-time LTI Systems,” In Proc. 2025 Eleventh Indian Control Conference (ICC), 2025, pp. 508-511, DOI: [10.1109/ICC69100.2025.11372311](https://doi.org/10.1109/ICC69100.2025.11372311).
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