

Faculty Profile



Name: Dr. Sagar

Designation: University Academic Fellow

Teaching Areas: Analog and Digital Electronics, Microelectronics and VLSI.

Research Interests: Memristors, Fractional-Order Systems, Active Filters and Chaotic Circuit Design.

Education:

- Ph.D. (Analog and Mixed-Mode Signal Processing Circuits) from Indian Institute of Technology (ISM), Dhanbad, July 2023.
- M. Tech. (Electronics Engineering) from UVCE Government Engineering College, Bangalore University, Bangalore, 2016.
- B. E. (Electronics & Communication Engineering) from K.L.E College of Engineering and Technology, Belagavi, 2012.

Research / Selected Publications:

Web of Science Journals (SCI indexed): 05, Conferences (International): 2

1. Sagar Surendra Prasad, Rajeev Kumar Ranjan, and Sung-Mo Kang, "Resistorless: Floating and Grounded Memristor model with Electronic Tunability" In IEEE Transactions on Circuits and Systems II: Ex. Brf., vol. 70 (7), pp. 2040-2044, July 2023. DOI: 10.1109/TCSII.2023.3242301
2. Sagar Surendra Prasad, Vijay Kumar Verma, and Rajeev Kumar Ranjan, "Electronically Tunable Flux- Controlled Resistorless Memristor Emulator," In IEEE Canadian Journal of Electrical and Computer Engineering, vol. 45 (3), pp. 311-317, Aug. 2022. DOI: 10.1109/ICJECE.2022.3182711
3. Sagar Surendra Prasad, Prashant Kumar, Rajeev Kumar Ranjan, "Resistorless memristor emulator using CFTA and its experimental verification," In IEEE Access, vol. 9, pp. 64065-64075, June 2021. DOI: 10.1109/ACCESS.2021.3075341
4. Sagar Surendra Prasad, Rajeev Kumar Ranjan, et al., "A Compact Floating and Grounded Memristor model using Single Active Element" In AEU-International Journal of Electronics and Communications, Elsevier., vol. 157, pp. 154426, Dec. 2022. DOI: <https://doi.org/10.1016/j.aeue.2022.154426>
5. P. Shrivastava, Sagar Surendra, R. K. Ranjan, R.K. et al., "PI, PD and PID Controllers Using Single DVCCTA," In Iran J Sci Technol Trans Electr Eng., vol. 43, PP. 673–685, Sept. 2019. DOI: <https://doi.org/10.1007/s40998-019-00180-z>

Reviewer: Arabian Journal for Science and Engineering (AJSE), Springer, ISSN. 21914281, and Electronics Letter, Wiley, ISSN. 00135194.

Professional Society memberships: Graduate Member of IEEE.