



Sreenath Vijayakumar

Ph.D., IIT Madras

Assistant Professor, Electrical

sreenath@iitpkd.ac.in; (+91)94421-65085

<https://iitpkd.ac.in/people/sreenath>



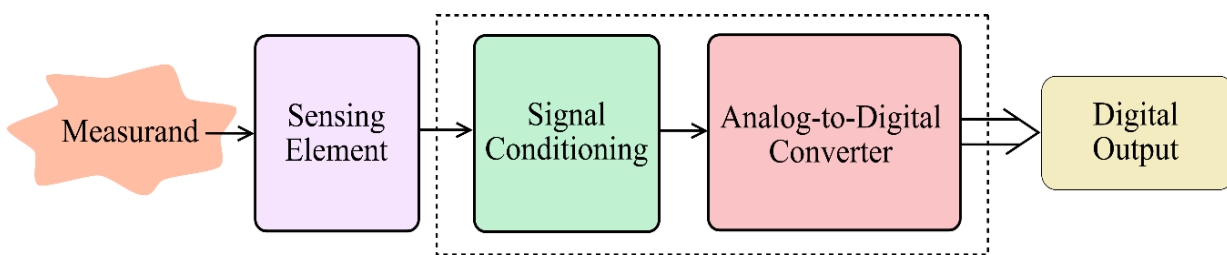
Research Interests:

- Capacitive and Resistive Sensors
- Signal Conditioning Circuits
- Sensors for Automotive and Industrial Applications
- Measurements and Instrumentation

Brief Summary of Research:

Sreenath received his Ph.D. and M.S. in Sensors, Measurements and Instrumentation from the Dept. of EE, IIT Madras, India in 2018. From July 2018 to May 2019 he was working as a Product Development Scientist at Bajaj Automobiles, Pune. Based on the research performance, Sreenath is the recipient of the IITM Institute Research Award 2018, Dr. M. Mukunda Rao Endowment Prize 2018- best Ph.D. Thesis in EE Dept., IITM Pre-Doctoral Fellowship Award 2018, IEEE I2MTC Best Paper Award 2016 and IEEE I2MTC Student Travel Award 2015. His findings have been published in 5 international journals and 5 conferences.

His research interest includes electronic instrumentation, development of application-oriented sensors and signal conditioning circuits to sense numerous physical parameters in scientific and industrial applications such as angle, humidity, touch, level, displacement, fluid flow, soil water content, and position.



Block diagram representation of a measurement system.

Recent Publications:

- **V. Sreenath** and B. George, "An Improved Closed-Loop Switched Capacitor Capacitance-to-Frequency Converter And Its Evaluation," *IEEE Transactions on Instrumentation and Measurement*, vol. 67, no. 5, pp. 1028-1035, May 2018.
- **V. Sreenath** and B. George, "A Robust Switched-Capacitor CDC," in *IEEE Sensors Journal*, vol. 18, no. 14, pp. 5985-5992, July 2018.
- **V. Sreenath** and B. George, "A Switched-Capacitor Circuit-Based Digitizer for Efficient Interfacing of Parallel R-C Sensors," in *IEEE Sensors Journal*, vol. 17, no. 7, pp. 2109-2119, April 2017.