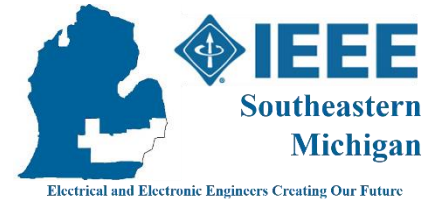
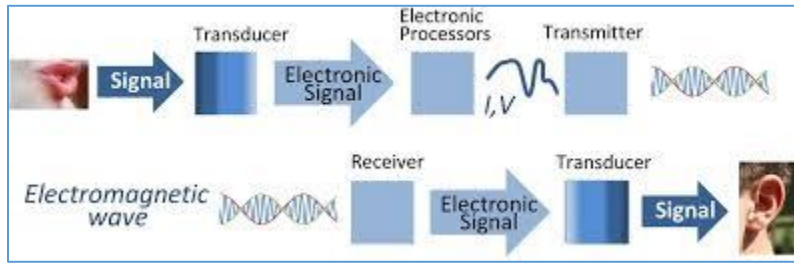


# IEEE Southeastern Michigan Presents: *Signal Processing 101*



The technology we use, and rely on, in our everyday lives—including computers, radios, video devices, cell phones, smart connected devices and more—is enabled by signal processing, a branch of electrical engineering that models and analyzes data representations of physical events as well as data generated across multiple disciplines. Hence, signal processing is at the heart of our modern world. It's at the intersection of biotechnology, entertainment, and social interactions. It enhances our ability to communicate and share information. Signal processing is the science behind our digital lives.

This is a 2 hour overview of this subject - inspired by a similar effort done in past years called "Introduction to Embedded Systems" by the Computer Society chapter of SE Michigan, aimed at students of all STEM disciplines but whose prime areas were not embedded systems. The idea is to share and gain appreciation for the topic.

#### *Speaker Bio:*

Sharan Kalwani is seasoned scientific, technical and computing professional, Sharan has spent over 25+ years' experience in high performance computing, engineering applications simulation, benchmarking, networking, operations and project management. He is a senior member of IEEE, ACM, SEMCO, ASEI. He is active as one of the writers/editors of the IEEE Southeastern Michigan Sections monthly newsletter - Wavelengths. He has also served as Vice-Chair of IEEE Sustech 2022, IEEE SusTech 2021 Global Conferences.

**\*Pre-Registration Required!**

<https://events.vtools.ieee.org/m/514171>



#### Quick Summary

- **When:**  
Date: Dec 29<sup>th</sup> , 2025  
Time: 1600 – 1800 Hrs  
(EST/EDT)

- **Where:**  
Online via Webex

Audience: OPEN to ALL

*Sponsored by  
IEEE Southeastern  
Michigan Section's  
Joint Technical  
Chapter  
On  
Signals/Circuits &  
Information Theory*

**IEEE Southeastern Michigan Section**