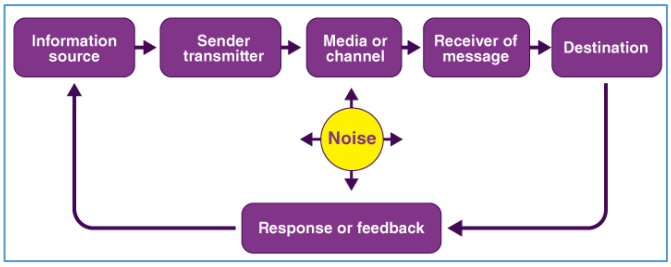
IEEE Southeastern Michigan
Presents:
Information Theory 101



Information theory is the mathematical study of the quantification, storage, and communication of information. The field was established and formalized by Claude Shannon in the 1940s, though early contributions were made in the 1920s through the works of Harry Nyquist and Ralph Hartley. It is at the intersection of electronic engineering, mathematics, statistics, computer science, neurobiology, physics, and electrical engineering

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/514175

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Quick Summary

- When:
  Date: Dec 30th, 2025
  Time: 1100 – 1300 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