Signal Processing for Communications and Sensor Networks (SPCSN)

• Lab Feature

✓ SPCSN Lab focuses on developing distributed signal processing techniques for advanced communication systems and wireless sensor networks.

• Research Topics

➤Distributed detection and estimation

➤Signal processing for sensor networks and communication systems

➤Spectrum sensing for cognitive radios

➤Compressive sensing

➤Frequency estimation with the applications in vital-sign detection and wireless communications

• Projects

➤Further study of blind spectrum sensing using multiple cooperative cognitive radios (MOST)

➤Study of sampling design in distributed statistical inference networks (MOST)

➤Physical-layer security designs for distributed statistical inference networks (MOST)