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SPCEET RESEARCH SEMINAR SERIES

JOINT SENSING AND COMMUNICATION IN THE WORLD OF NEUROMORPHIC (EVENT) CAMERAS

DATE: WEDNESDAY, AUGUST 20TH
TIME: 11:15 AM - 12:15 AM
LOCATION: Q 108

BIO

Ashwin Ashok is an Associate Professor and Associate Graduate Director in the Department of Computer Science. He directs the MORSE Studio laboratory where his group focuses on diverse areas including wireless communications, non-terrestrial (space) networking, autonomous and robotic systems, precision agriculture and environmental systems, mobile health and animal behavior. He received the NSF CAREER award in 2022 for advancing mobile visible light (optical wireless) communication.

ABSTRACT

In this talk, Dr. Ashok will introduce and motivate the concept of joint (integrated) wireless sensing and communication in the optical spectrum using neuromorphic cameras. He will present their recent work in the area of non line-of-sight visible light communication (VLC) and follow up with discussions on how such concepts can be extended to other wavelengths, mediums and applications. He will also present other topics from his current work for open discussion and brainstorming.