



Fall 2025 SPDC Research Seminars

November 05, 2025

3:30 - 4:30 P.M.

Human Ecology Building ROOM HE315

Hu is a Ph.D. student in Construction Management. He holds an MSc in Civil Engineering from University of Wisconsin-Madison. His research focuses on geospatial decision-making models for sustainable infrastructure construction. He is passionate about innovative computing for better quality of human life. His work is supported by NSF. Musab has presented his work at national and international conferences, published in peer-reviewed journals, and actively leads academic and community initiatives.



Hongyu Hu

EV Charging Infrastructure Growth and Sustainability

This seminar presents insights from the paper "Growth patterns and factors of electric vehicle charging infrastructure for sustainable development" (2025). The study analyzes the evolution of EV charging infrastructure across 20 cities in Michigan, using EV adoption rates ranging from 5% to 95%. It identifies three key growth stages—inflection (25%), convergence (80%), and saturation (100%)—and classifies cities based on their size and traffic roles. Key influencing factors include population density and high-traffic road proportions. This talk will discuss how these patterns can guide sustainable planning and investment in EV charging networks.

