Electrical & Computer Engineering

S E M I N A R

Louisiana State University

Generative AI for Future Wireless Communications: Innovations, Challenges, Future Directions

Songyang Zhang

University of Louisiana at Lafayette

Abstract—The recent wave of progress in generative artificial intelligence (AI) has stimulated numerous novel concepts and achieved phenomenal successes in modern applications, including ChatGPT. Beyond its critical role in content generation for computer vision and natural language processing, generative AI presents profound opportunities and unlimited potential in wireless communications and networking. In this talk, we systematically address the tremendous potential and opportunities presented by the emergence and integration of generative AI in high-efficiency and contextual communication networks. We provide three specific system designs for fundamental future wireless communication systems.

When: Thursday, **21 November 2024,** 10:30 - 11:30
Where: Room 1258 Patrick F. Taylor Hall
Info: https://www.lsu.edu/eng/ece/seminar