SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING
Website: https://cde.nus.edu.sg/ece

Area: Signal Analysis & Machine Intelligence

Host: Associate Professor Robby Tan

Research seminar

TOPIC	:	**Towards Generalizable and Efficient Learning System Designs**
SPEAKER	:	**Dr. Zhou Kaiyang** **Research Fellow** **School of Computer Science and Engineering** **Nanyang Technological University, Singapore**
DATE	:	**Wednesday, 11 January 2023**
TIME	:	**2.00PM to 3.00PM**
VENUE	:	**E5-03-20** **Block E5, College of Design and Engineering, NUS**

ABSTRACT

Machine learning models are powerful but also brittle in the sense that they often fail catastrophically when the test data distribution shifts away from the training data distribution. In this talk, I will present my research aimed at solving the distribution shift problem while pursuing efficiency in model designs. Specifically, I will address the distribution shift problem from four perspectives spanning key stages in machine learning system designs, namely data, architecture, learning, and deployment.

BIOGRAPHY

Dr. Kaiyang Zhou is currently a research fellow at NTU Singapore. His research interests lie at the intersection of machine learning and computer vision. He has published over 20 papers at top-tier journals and conferences in relevant fields, with over 2,000 citations received in total. He is a guest editor of the flagship journal in computer vision, International Journal of Computer Vision (IJCV), and has served as an area chair and senior program committee member for multiple AI conferences. He received his PhD in Computer Science from the University of Surrey, UK.