The Evolving Role of Machine Learning in Healthcare

By

Dr. MICHAEL D. KUO, MD

Department of Radiological Sciences,
University of California, Los Angeles

Abstract

Medicine, by definition, is an information science that requires the capacity to actively acquire individualized and context-specific data, and to then iteratively evaluate, assimilate and refine this information against a vast database of medical knowledge in order to arrive at a small solution space with a corresponding set of individually tailored implementable policies. Machine Learning (ML), as a transformational tool, is thus potentially extremely well suited to medical application. Unfortunately, while technological advances in ML are being made at a rapid pace in other domains, impactful medical application significantly. In this talk I will discuss problems currently being addressed with machine learning, how our group and others are beginning to incorporate it across a number of different facets in medicine, highlight areas of future growth and opportunity, as well as areas of existing limitation or future ethical concern.

Date : 21 August 2017 (Monday)
Time : 2:30pm
Venue : Room 2464 (Lift 25-26)