Abstract for Workshop on Clinical Decision Support systems

Decision-making (using images and other clinical data) is still very much an art for many physicians in their practices today due to a lack of quantitative tools and measurements. One of the most important benefits of digital health technology is to assist the clinician in the face of vast amounts of health data, limited time for decision making, and the complexity of the health and disease conditions. Clinical decision support tools are frequently cited as a solution to this problem.

Data plays a key role in the development of these systems and health data from various sources enables making decisions that are backed up by hard data rather than making decisions that are intuitive or based on observation alone. Data and analytics are disrupting existing healthcare decision making models and ecosystems.

CDSS systems employ a wide range of analytics techniques when trying to solve the CDS puzzle, and are also increasingly relying on advanced machine learning to deliver results.

This workshop will include, but not limited to the following topics:

Introduction and theory behind decision support systems

Introduction to Big data

Introduction to AI

Introduction to ML concepts, algorithms and models

Hands on with tools for data analysis

Hands on with ML/ AI tools