



Pre-Congress Workshop

HEALTH SERVICES RESEARCH CENTRE SEMINAR SERIES

Practical Data Science for Health Services

20 September 2018 (Thursday) | Academia, Level 1, L1-S1 | 9.00am - 5.00pm

An Introduction to Data Science in Health Services Research

In the era of data science, the landscape in health services research (HSR) has been rapidly changing. Leveraging the advanced data science techniques and tools, analysing complex, big health data is feasible. Health analytics aims to extract insights from data to drive fact-based decision making for planning, management, measurement and learning.

This workshop will give the audience a basic introduction to data science tools and their applications to health services research, featuring tutorials on descriptive and predictive analysis, data management and visualization, and implementation science, among others.

Program: Morning Session

09:00-09:50 Introduction to Data Science (Sean Lam Shao Wei)

09:50-10:40 Data Management with REDCap (Narayanan Ragavendran)

Break

11:00-11:50 Data Analysis in R (Nguyen Ngoc Hoang Long)

Program: Afternoon Session

13:30-14:20 Data Analytics with Feature Engineering (Liu Nan)

14:20-15:10 Data Visualization and Dashboard (Ang Boon Yew)

Break

15:30-16:20 Implementation and Evaluation (Chan Sze Ling)