EUROPEAN CAMPUS
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DEGGENDORF INSTITUTE OF TECHNOLOGY **DIT**

PFARRKIRCHEN, GERMANY

DigiHealthDay-2020
Global Digital Health — Today, Tomorrow, and Beyond

13 NOV 2020

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WEBINAR : Clinical Decision Support Systems
April 29-30, 2020, 9:45-13:00(CET)

ABSTRACT

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 AI

• Introduction to ML concepts, algorithms, and models

• Hands on with tools for data analysis

• Hands on with ML/ AI tools

AGENDA

Date	Time	Topic
Wednesday, 29 April 2020	9:45-11:15	• Introduction to CDSS • Components of CDSS • Case study 1: Regenstrief Medical Record System
	11:30-13:00	• Medical Logic Modules in CDSS • Introduction to data analysis and data mining tools. • Introduction to Analytical tool 'Microstrategy' • Application link: https://www.microstrategy.com/us/get-started/desktop (Recommended to download and install the application before the workshop)
Thursday, 30 April 2020	9:45-11:15	• Introduction to AI and Machine learning (ML) concepts for CDSS • Types of Machine learning • Introduction to ML algorithms • Case study 2: CDSS in LDS hospital in Salt Lake City, Utah
	11:30-13:00	• Introduction to ML tool: 'Orange' • Developing a prediction model with 'Orange' • Download link: https://orange.biolab.si/download/#windows ((Recommended to download and install the application before the workshop)