

The value of big data for better healthcare

7 de Novembro de 2019, 11h, Auditório do CTN, Pólo de Loures do IST



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BACKGROUND

Leonard Wee is a postdoctoral researcher specialising in clinical data science at Maastric Clinic / Maastricht University Medical Centre. His strongest skills are in medical statistics, machine learning, radiation oncology and clinical research. This follows from 14 years of experience in various roles including such as senior data scientist, director of research and radiation oncology medical physics expert.

ABSTRACT

As the volume of routine medical data generated in clinics and hospitals around the world grows exponentially, researchers and clinicians are under pressure to derive new insights and actionable knowledge from this wealth of data. This is especially true in the domain of radiation medicine (radiotherapy, nuclear medicine) and clinical imaging. However, there remain numerous challenges in the way of deriving clinical and societal value from data. In this seminar, we will explore some of these issues and then review how innovative new data science methods can help us find a way towards ethical and responsible use of patient data for better healthcare.