

Human-Centered Deep Learning for Healthcare: Advancing Medicine

Dr. Javier Montoya

Lucerne University of Applied Sciences and Arts, Suiza

Abstract

Artificial Intelligence (AI) has shown different successful applications across numerous industries and its adoption in healthcare brings new opportunities for medical technology industries, hospitals, and life science research. One key area where AI has contributed significantly to digital health is medical imaging, which constitutes a key source of information for answering clinical and scientific questions targeting human health. Among the different types of imaging technologies, one can find radiography, tomography, magnetic resonance imaging, to cite some. In this talk, we will explore different ways how AI can contribute to digital health, focusing on diagnosis. We will start by reviewing how AI works and its core principles. We will then explore different projects of AI-based methods in digital health together with their potential impact and remaining challenges. By the end of this talk, participants will have a better understanding of the potential of AI in digital health and how it can be used to advance medicine.