



How Is Artificial Intelligence Reinventing Healthcare?

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Early detection, faster treatment and prevention of disease with machine learning

Machine learning is anticipated to revolutionise healthcare. This talk presents AI-based technologies serving to optimise treatment of acute patients, identifying disease earlier and even predicting and preventing development of disease. In acute ischemic stroke we have developed AI-based methodology to use MRI brain scans to make the best prediction of treatment outcome for the individual patient based on large historical databases. In cognition we have developed a machine-learning technique to predict development of addiction by monitoring online behaviour. In medical general practice we are developing algorithms to detect early signs of cancer using data from electronic health records. While the potential for machine learning in healthcare is vast, this talk also highlights the fundamental interdisciplinary efforts across research and industry it takes to develop, validate, regulatorily approve and implement AI-based decision support.