Machine Learning for Clinical Radiobiology

Radiotherapy and its treatment planning have advanced significantly in the past decade – but our knowledge of toxicity has not kept pace. Our research activity is focused on innovative outcome measures, which will feed into innovative data analysis methods, allowing a better prediction of toxicity. This in turn will allow better treatment planning for future patients by optimizing the balance between tumor control and side effect for each individual patient. Most recent tools for patient reported outcomes that exploit mobile apps are included in a thorough technological framework developed for learning from each patient in the paradigm of personalized medicine.

References:

Keywords: Radiotherapy, toxicity analysis, personalized medicine

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