Omics guided radiotherapy

Clinical tools for interventional radiotherapy

LUCA TAGLIAFERRI - MD, PhD

















THE PATIENT-CENTRIC APPROACH

Create value for the patient, defined as the ability to receive the best possible treatment, taking into account the patients' wishes, his or her personal environment, and therefore increase the chances of surviving and optimising quality of life during and after treatment.









- Porter ME. 2010. What is value in health care? N Engl J Med;363:2477-81.
- Lievens Y, Audisio R, Bansk I, et al. 2019. Towards an evidence-informed value scale for surgical and radiation oncology: a multi-stakeholders perspective. Lancet Oncol; 20: e112–23





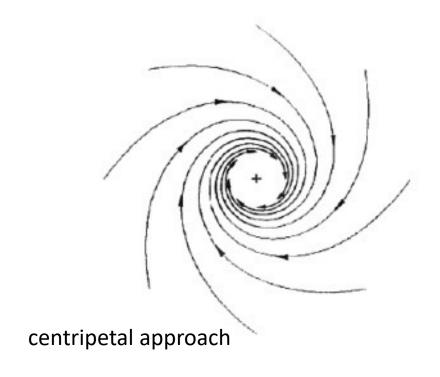
Facilitating repetitive tasks, optimising time

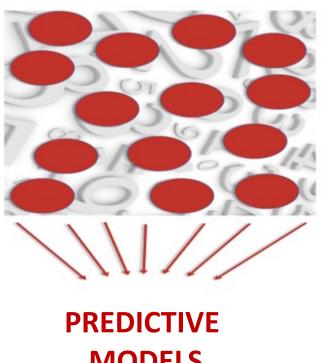
Modeling behaviors, in heterogeneous contexts





Providing clinical decision support



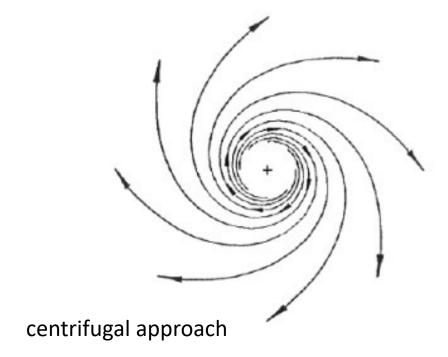




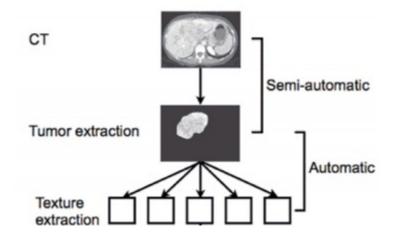




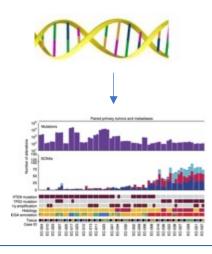
Mining -omics, analysing data



RADIOMICS



GENOMICS





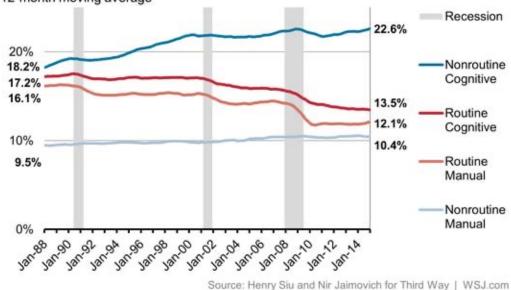




Facilitating repetitive tasks, optimising time

Decline of Routine

Percentage of the population in jobs that have been identified as routine and nonroutine, 12-month moving average



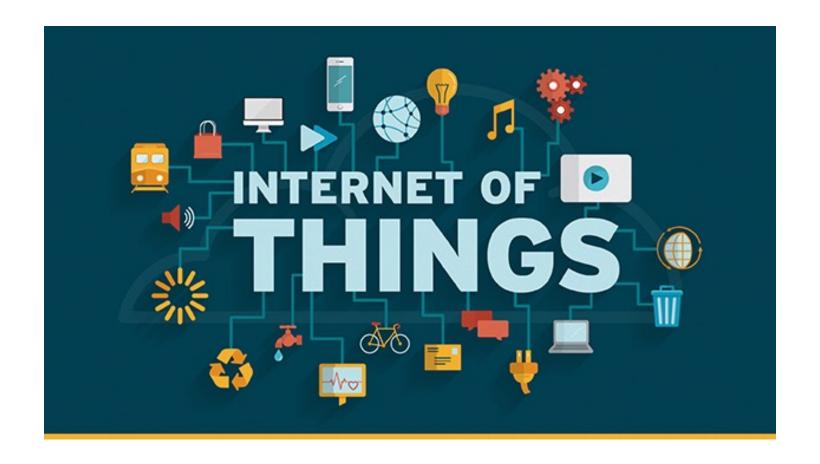








Modeling behaviors, in heterogeneous contexts





THE RADIATION ONCOLOGIST POINT OF VIEW



First patient consultation

Implant

Delineation

Planning

Treatment session delivery

End of treatment

Providing clinical decision support

Mining –omics, analysing data

Facilitating repetitive tasks, optimising time

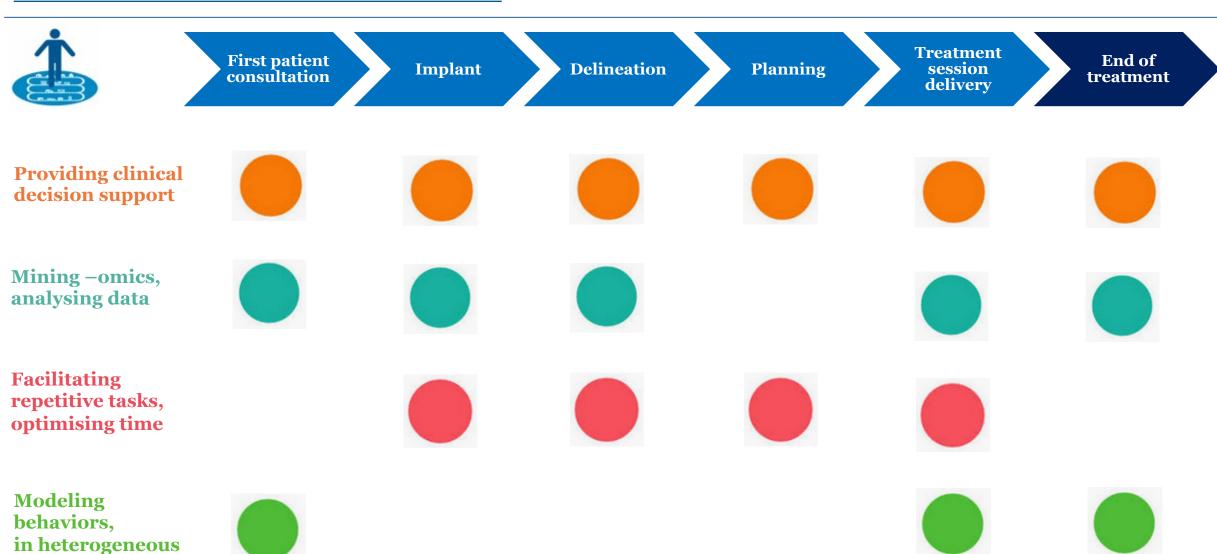
Modeling behaviors, in heterogeneous contexts

ARTIFICIAL INTELIGENCE and INTERVENTIONAL RADIOTHERAPY





THE RADIATION ONCOLOGIST POINT OF VIEW





contexts



Thank you for your attention

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