



1ST ESTRO PHYSICS WORKSHOP

*Science in
development*

17-18 November 2017
Glasgow, UK

Automate or perish

Chairs: B. Heijmen, D. Verellen

Short description of the workshop:

The workshop aims at joining professionals in the field of radiotherapy that are active or have a high interest in automation of different aspects in the radiotherapy workflow and patient care path. The idea is to provide a discussion platform on current initiatives and evaluate possibilities in combining these efforts into a standardized approach. In addition to technical issues and solutions, the workshop will also touch upon topics such as the tension field between automation, the future role of the medical physics expert and responsibilities.

Preliminary program - list of topics to be covered:

The workshop will discuss opportunities, challenges and limitations related to:

- Automation in image registration and segmentation
- Automation in treatment planning
- Automation in patient QA and dose tracking for adaptive radiotherapy
- Automation in machine QA/QC
- How to integrate all these efforts in an automated and comprehensive workflow?

Expected outcome:

- Strengthening of scientific and practical international collaborations between health care centres and between those centers and industry.
- On-going efforts and projects are hampered by 2nd - 3rd party interfaces and user specific filters to solve incompatibilities between software and hardware platforms. As such one of the possible outcomes of the workshop could be to assess the possibility of generating an umbrella standard in radiotherapy data transfer facilitating automated process throughout the entire patient care path in radiotherapy.

Target group:

Medical physicists and scientists active in radiotherapy as well professionals from industry that are involved in automation.