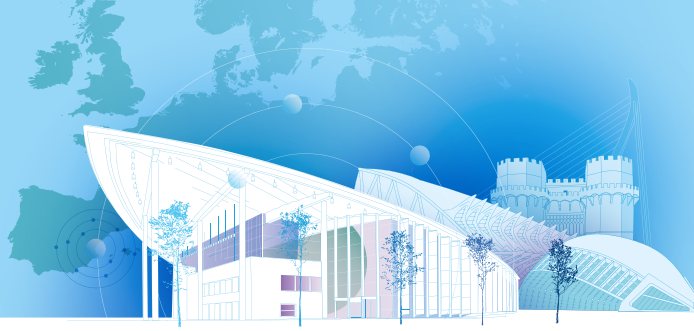
6th ECMP 2026

European Congress of Medical Physics

23-26 September 2026 | Valencia | **Spain**



ESMPE

EUROPEAN SCHOOL FOR MEDICAL PHYSICS EXPERTS

Auto-Planning methods for Radiotherapy

September 23, **2026** | Valencia, Spain

Course Description

Autoplanning offers many advantages for radiotherapy, including harmonization, standardization, greater efficiency and, depending on the system, improved plan quality. Several commercially available planning systems provide autoplanning, with important differences in their approaches. This one-day course will offer a comprehensive introduction to autoplanning, covering the principles behind different solution categories, clinical use of commercial systems, and discussion of challenges such as potential loss of manual planning expertise and changing planner roles.

Learning Objectives

By the end of this course, participants will be able to:

- Understand the fundamental principles of knowledge-based planning, protocol-based automatic iterative optimization and multi-criterial optimization,
- Identify the input required for each category of autoplanning solution,
- Describe the strengths and limitations of each category of autoplanning, and
- Outline the steps necessary to introduce autoplanning in the clinic, while coping with challenges

Faculty

» **Prof. Sara Hackett** | University College Cork and Cork University Hospital
» **Prof. Ben Heijmen** | Erasmus Medical Center, Rotterdam
» **Dr Michele Zeverino** | Institute of Radiation Physics, Lausanne University Hospital and Lausanne University
» **Dr Johanna Austrheim Hundvin** | Haukeland University Hospital

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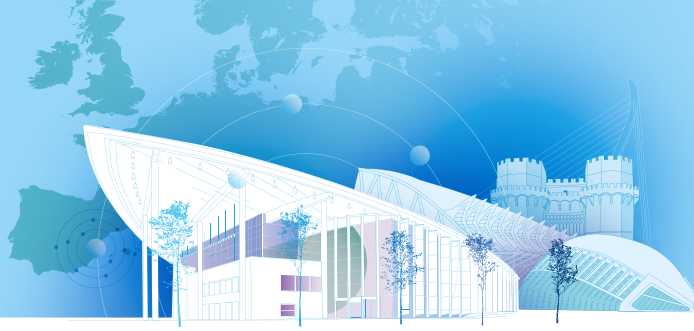

Timetable

	TITLE	LECTURE
9.00–9.15	COURSE PRESENTATION	Sara Hackett
9:15–10.15	AUTOPLANNING – PRINCIPLES, PROS AND CONS OF DIFFERENT APPROACHES	Ben Heijmen
10:15–11.15	RAPIDPLAN – OAR DVH PREDICTION	Johanna Austrheim Hundvin
11.15–11.45	COFFEE BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
11.45–12.45	RAYSTATION – DEEP LEARNING FOR 3D DOSE PREDICTION	Michele Zeverino
12.45–13.45	LUNCH BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
13.45–14.45	AUTOMATED MULTI-CRITERIAL OPTIMIZATION - RULES-BASED AI	Ben Heijmen
14.45–15.15	COFFEE BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
15.15–16.00	DEMONSTRATIONS OF AUTOPLANNING SYSTEMS	ALL FACULTY
16.00–16.30	DEBATE: THE FUTURE OF AUTOPLANNING	ALL FACULTY

Further information

Course language	English
Level	MPE - Level 8
Maximum no. of participants	80
Duration	23rd September 2026
Study load	6 hours of lectures and discussions
CPD Points	Points to be confirmed (EBAMP Accreditation and Spanish certification (EVES))

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