# WEBINAR COURSE

## Radiomics in Europe

## The Present and the Future

## 10th June 2021

Course Directors:

Prof. Roberto Orecchia - Prof. Barbara A. Jereczek-Fossa

Scientific Director:

Dr. Giulia Marvaso

# Introduction

Radiomics is a rapidly evolving discipline in scientific research on prognostic and predictive factors for treatment response. Many cancers (prostate, lung, head and neck and breast) are currently being studied in monocentric and cooperative research projects. With this in mind, this event aims to provide an update on the recent applications of radiomics in the field of personalized treatments, with particular regard to its integration with photon and proton radiotherapy and medical oncology treatments.

# Programme

15.00 Welcome and Introduction - R. Orecchia, B.A. Jereczek-Fossa

## Session 1
*Chairs: G. Pravettoni - M. Cremonesi*

15.10 Optimization of structural similarity in image analysis and visual quality - D. La Torre

15.25 How can we make radiomics and deep learning explainable? - S.Tanadini

15.40 Discussion

15.55 Feature Engineering versus Feature Learning for Radiomics — A. Bhalerao

16.10 Radiomics and rectal cancer: a promising application - L. Boldrini

16.25 Discussion


## Session 2
*Chairs: G. Petralia, E. De Momi*

16.40 Radiomics and hadrontherapy: where we are now? — G. Baroni

16.55 Radiomics and whole-body MRI - A. Colombo

17.05 Discussion

17.20 Autosegmentation strategies in prostate cancer — M. Pepa

17.30 Deep Learning in prostate cancer radiomics — J.Isaksson

17.40 Prostate cancer radiomics in the clinics: ready for prime time? - S. Volpe

Clinical Applications in high-risk prostate cancer (AIRC IG-14300) - G. Marvaso

17.50 Artificial intelligence and cancer medicine - G. Curigliano

18.00-18.15 Discussion and conclusions

# Course Directors

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# Registrations

The access to the webinar is free of charge

You can register online by connecting to https://www.ieo.it/it/FORMAZIONE/IEO-Education/Corsi-e-congressi/, selecting the event of interest and clicking on "online registration".

# Certificate of attendance and cme credits

The course will apply to Agenas for providing Italian CME credits for: Radiation Oncologists, Radiologists, Medical Physicists, Psychologists P Radiology, Radiotherapy Technicians

Provider IEO ID 207

Credits: 4,5

We remind you that in order to be entitled to ECM training credits it is compulsory to: attend 90% of the training hours, fill in the event evaluation questionnaire, take and pass the learning test.

The certificate of attendance will be sent by e-mail a few days after the end of the course, while the certificate with the CME credits will be downloaded directly from the website after correctly completing the online questionnaire.

*Please note that the CME certificate of attendance does not constitute a qualification for the exercise of the activities in question.*

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