

EUTEMPE-MPE04: Innovation in diagnostic radiology: hot topics and challenges

Start online course: May 15, 2025

Onsite course in Ferrara, Italy: June 9 – 11, 2025

A practical challenge to be solved:
which physical principle can be turned into clinical reality, and when?

- This course provides the participant with an overview of the most relevant topics regarding **innovation in diagnostic radiology**.
- The latest progress in **spectral and phase imaging, photon counting technologies** and computational methods applied to clinical radiology (**AI and radiomics, in-silico virtual clinical trials**) will be addressed.
- After a preparatory online phase, the course includes three days of lectures, **interactive sessions and discussions** “on site” in Ferrara, Italy.



<http://eutempe-net.eu/mpe04/>

<https://www.efomp.org/index.php?r=eutemperegforms/application&id=7>



University
of Ferrara



EFOMP
EUROPEAN FEDERATION OF ORGANISATIONS FOR MEDICAL PHYSICS



MPE04 training outcome

You will...

- Research, critique, evaluate and assess **innovative diagnostic and interventional radiology systems** that take advantage on spectral and phase contrast imaging, computational methods applied to clinical radiology (AI and radiomics, in-silico virtual clinical trials)
- Take responsibility for **the translation of new devices and modification of existing devices into the clinical practice** of D&IR: the new challenges of future MPEs

And you will take home with you...

- The unique opportunity to play the **leader's** role in the profession with an **innovative point of view**.
- A learning process as a good scientist: **be the MPE of the future!**
- Strategic personal growth for the development of your profession to **be able of dealing with innovation**: it is already coming towards you!

EUTEMPE-MPE04: they say about previous editions...



"... the course gave us strong basis to deal in clinical environment with any technology that will come."

"was excellent explained in every detail, very clear, and contribute to better understand what technology in fact we are dealing with..."

"...Visiting a synchrotron was very unique and extremely interesting. For many of us it might be only one chance in life..."

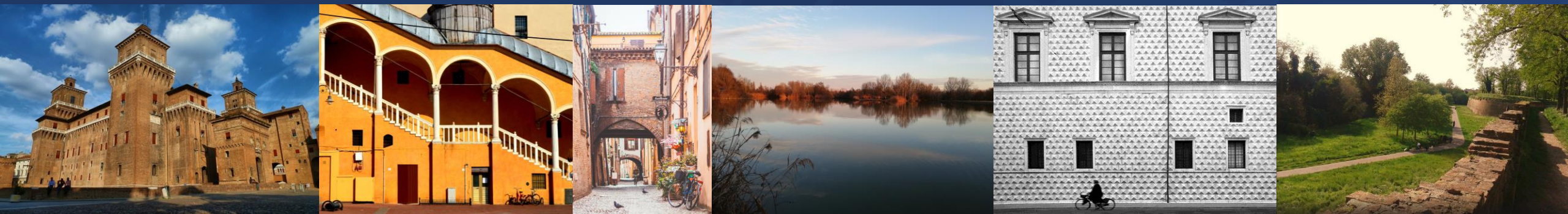
"...to be aware how process of innovation works..."

"... good example to support theory with practice"

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Module leaders: **Angelo Taibi** (University of Ferrara) and **Paolo Cardarelli** (INFN-Ferrara)

Contact us: medphys@unife.it - <https://medical-physics.unife.it/>



Info on the website:

<http://eutempe-net.eu/mpe04/>

Ferrara
UNESCO World Heritage

