

Digital Medicine: the revolution of our concept of health

Coordinator Filippo Molinari

The School will be centered along the **concept of digital medicine**, its applications, the associated technical needs and the most relevant challenges, some of which were underlined and somehow exacerbated by the recent pandemic emergency. **Revolutionary technologies**, mainly in the field of data processing and information extraction, are overtly impacting medicine and the associated services; moreover, this **technologically driven streamline** is changing our interface to healthcare services. With an outlook to recent success stories and by recalling previous limitations and pitfalls, the technological discussions will merge with **ethical and management interactions**, in order to present a comprehensive scenario of how digital medicine could and should impact the healthcare systems and revolutionize our concept of health.

The School will be structured by a blended set of pre-recorded presentations and collective discussions. Students will be made available the pre-recorded contributions for self-learning in asynchronous mode.

Pre-recorded lectures – self learning

- Medication adherence: how new digital technologies can help improving patient engagement; Prof. **Enrico Caiani** – PoliMI
- Medical smart sensors and intelligent techniques, Prof. **Danilo Demarchi** – PoliTO
- How to develop innovative AI-based medical solutions and success stories, Prof. **Simona Ferrante** – PoliMI
- Artificial Intelligence in Oncology: Radiomics and beyond, Prof. **Luca Mainardi** – PoliMI
- A decision support system to support end-users in accessing regional healthcare services, Prof. **Silvia Chiusano** – PoliTO
- The Deep Learning revolution in medicine: what's really going to change? – Prof. **Filippo Molinari**, PoliTO
- Evaluation and sustainability of healthcare interventions – Prof. **Emidia Vagnoni**, UniFE

Online meetings with discussants and students

Agenda

- 10/03/2021 10:00-12:00 – Open Day
- 16/03/2021 17:00-19:00 – Round Table 1: The cutting edge of digital medicine: an industrial point of view
- 23/03/2021 17:00-19:00 – Round Table 2: How will clinicians face the digital medicine revolution?
- 30/03/2021 17:00-19:00 – Round Table 3: Future of digital medicine in hospitals and territorial services

Round Table 1:

The cutting edge of digital medicine: an industrial point of view (**March 16th**)

Moderator: Prof. Filippo Molinari

Discussants:

- Massimo Salvi – AEQUIP Srl
- Jacopo Secco – Omnidermal Srl
- Matteo Lai, Empatica Srl
- Giuseppe Recchia, daVinci Digital Therapeutics

Round Table 2:

How will clinicians face the digital medicine revolution? (**March 23rd**)

Moderator: Prof. Emilio Paolucci

Discussants:

- Prof. Paolo Fonio, Radiology, Città della Salute e della Scienza, Torino
- Prof. Filippo Molinari, PoliTO
- Prof. Luca Mainardi, PoliMI
- Dr. Luca Molinaro, Pathology, Città della Salute e della Scienza, Torino

Round Table 3:

Future of digital medicine in hospitals and territorial services (**March 30th**)

Moderator: Prof. Emilio Paolucci

Discussants:

- Ing. Valeria Ingrosso, Humanitas
- Ing. Alice Ravizza, UseMed Srl
- Dr. Flavio Boraso, ASL AL (pre-recorded contribution)
- Dr. Giorgio Moretti, Dedalus

PhD programs related to digital medicine (tbd)

Discussants:

- Head of the Doctorate School of PoliMI
- Head of the Doctorate School of PoliTO
- Coordinators of PhD programs