

# BARCELONA OCTOBER 4-8, 2025 eanm25.eanm.org



## **Joint Symposium 4**

Al Committee / EFOMP / SIIM / IEEE Monday, October 6, 15:00 – 16:30

#### **Session Title**

**Trustful AI in the Clinics** 

#### **Chairpersons**

**Efi Koutsouveli** (Athens, Greece) **Dimitris Visvikis** (Brest, France)

### **Programme**

15:00 – 15:30 **Selina Zipponi** (Padova, Italy): Ethical AI and the EU AI Act 15:30 – 16:00 **Mathieu Hatt** (Brest, France): Explainable AI for NM 16:00 – 16:30 **Oliver Diaz** (Barcelona, Spain): Trustworthy image processing with AI

### **Educational Objectives**

- 1. Learn about the legal framework for AI regulation in the EU
- 2. Learn the state of the art in the field of explainable and trustworthy Al

#### **Summary**

The development of artificial intelligence (AI) in the field of medicine has led to numerous commercial solutions which are rapidly finding their way into clinical practice. In parallel there is an increasing demand from potential users of AI in clinical practice for the development of more explainable and trustworthy models. These two aspects will facilitate the adoption of the proposed solutions and allow a more transparent usage not only for the hospital personnel but also for the patients. Similarly, medical physicists are working on the development of protocols for acceptance testing and continuous quality control of AI software solutions finding their way into clinical practice. More recently a legal framework concerning the use of AI has been voted by the EU parliament and will be translated into legislation in the EU countries. We are therefore in crossroads both in terms of the increasing adoption of AI models in clinical practice but also their regulation throughout their lifecycle similarly to any other medical device used in clinical practice. This session will shade light in all of these aspects and provide the current state of the art in the field.

### **Key Words**

EU AI act; Ethical AI; Explainable AI; Trustworthy AI