

# **Law and Neuroimaging**

## **Evidence for an open dialogue**

**Department of Legal, Historical & Department of Medical and Surgical Sciences  
Economic and Social Sciences**

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The neuroscientific discoveries of the last decades and among these, in particular, those related to Neuroimaging technology have opened up new perspectives in the study of physiology and pathology of human brain. From computed tomography (CT), we moved on to multiplanar resonance magnetic imaging (MRI), the development of molecular imaging techniques (emission tomography of positrons - PET), and more recently, to hybrid scanners (TC-PET, RM-PET), capable of offering a new multidimensional assessment of the brain. Neuroimaging currently represents the set of diagnostic and experimental methods that allow the visualization of the brain in its details structural, anatomical, functional, metabolic and molecular, and provides global information on brain functions in humans, starting from its maturation and during its evolution and involution. The possibilities offered by neuroimaging have therefore opened up new perspectives in definition of mind and human person that need to be addressed and contextualized in a multidisciplinary field for their correct and global management, not only medical but also psychological, social, ethical, and civil and criminal law.

The Symposium aims to offer participants a path through the discoveries neuroscientific, able to provide an overview of the most advanced neuroimaging techniques also in light of the innovations introduced by artificial intelligence. With a multidisciplinary approach the current relationship between neuroimaging and law and future prospects will be analyzed in the light of the technological advancements. The round table will create a dialogue between neuroscience and law, with the awareness that a new path has already begun, full of interesting and fruitful developments in the whole ordering system.