Call for applications for the assignment of 1 research fellowship grant for carrying out Category B research activities, as per Article 22 of Italian Law No. 240/2010, for the Scientific Disciplinary Sector of ING-INF/05 – Information Processing Systems, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Engineering of Università Campus Bio-Medico di Roma

Call Code: ASS-RIC/21_23

Departmental Faculty	Engineering
Research theme in English	Artificial intelligence for precision medicine
Brief description of the research in English	We are witnessing a fast adoption of artificial intelligence, and advancements in deep learning (DL) should improve the diagnosis, prognosis and treatment decisions in healthcare. However, most of the DL models for medical applications consider only unimodal data, neglecting information available in other modalities of patient digital phenotypes. The Researcher will tackle this challenge advancing multimodal DL (MDL), studying how deep neural networks can learn shared representations between different modalities, addressing issues still open in the literature. He/she will also study explainable AI (XAI) methods to open the black-box nature of MDL to explain the decisions taken. Applications will be directed to precision medicine to prevent, to diagnose and to cure viral diseases.
Scientific Supervisor	Prof. Paolo Soda
Scientific Disciplinary Sector	ING-INF/05 – Information Processing Systems
Language knowledge and skills	English B1
Date of the interview	**8ᵗʰ February 2024, at 16:30 pm** Remote candidates on Microsoft Teams platform

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