



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 IINF-05/A - 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/30_24

Departmental Faculty	Engineering
Research theme	Artificial Intelligence Methods for the Development of Predictive Tools in Lung Cancer
Brief description of the research	<p>Artificial intelligence (AI) can improve diagnosis, prognosis and therapeutic decisions in the treatment of lung cancer. However, most AI models only consider unimodal data, neglecting the information available in the different data collected during the patient's diagnostic and therapeutic pathway.</p> <p>The researcher will develop multimodal AI methods to integrate heterogeneous data (e.g. clinical data, radiological and histological images, etc.) for response and treatment prediction, generative AI techniques, explainable AI methods, and digital twin AI techniques. Applications are aimed at predicting the complete pathological response in patients with non-small cell lung cancer, predicting the risk of developing lung cancer when screening high-risk patients, and developing data-driven models of disease treatment.</p>
Scientific Supervisor	Prof. Paolo Soda
Scientific Disciplinary Sector	IINF-05/A - Information Processing Systems
Language knowledge and skills	B1
Date of the interview	24th October 2024, at 11:00 a.m. Remote candidates on Microsoft Teams platform