Supervisor Project Idea

Supervisor

Insert a brief CV and/or external link, the total number of publications, the ORCID link, 5 of the most significant/recent publications, and a list of funded projects and awards. Please indicate if you are a MSCA fellow yourself and if you have already been a MSCA Supervisor before. max 300 words

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Chiara Floridi
Associate Professor in Radiology, DISCO, UNIVPM, **Chair of General and Special Radiology course** of **Dentistry and Orthodontics degree program** based in the Faculty of Medicine, Marche Polytechnic University, Ancona and Interventional Radiologist in Azienda Ospedaliero-Universitaria delle Marche. More than 10 years of clinical and research activity in **Interventional and Diagnostic Radiology** with special emphasis on **Interventional Radiology Oncology**. Head of Computed Tomography Italian **Computed Tomography Subspecialty Section of the Italian Society of Medical and Interventional Radiology.** Involved in several national and international projects.
102 pubblications; 2028 citations; 27 H-index https://orcid.org/0000-0002-6863-9471

Research Group Description

Provide the name the reference department and a brief description of the research group, including external links, and available instrumentations and infrastructures. max 300 words

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Diagnostic and Interventional Radiology Departments Azienda Ospedaliero-Universitaria delle Marche
Head Chief: Prof Andrea Giovagnoni

The group is currently formed by a full Professor, four Associate Professors and four Researchers
RESEARCH AND PUBBLICATIONS   https://orcid.org/0000-0002-5264-652X; https://orcid.org/0000-0002-6863-9471; https://orcid.org/0000-0001-7133-8509
RESEARCH ACTIVITY - ***INSTRUMENTATIONS AND INFRASTRUCTURES***

The research lines of our group are focused on precision imaging. Mainly there are two different focus, one in oncology imaging and other one in Imaging-guidance for interventional oncology (IO). The principal aims are developing and optimizing newer generation AI-based imaging analysis and tools for imaging interpretation and prediction of IO treatments. Dual energy Dual Source and Rapid Switching computed tomography scans; three MR 1.5T scanners; one PET-MR 3.0T scanner; two fully equipped angiosuites equipped with Cone-beam computed

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Research thematic area

Indicate the MSCA panel and keywords that better describe your field of competence and research thematic area of your interest for a MSCA PF supervision – you may add extra keywords and text if necessary.

MSCA Panel Chemistry (CHE) - Economic sciences (ECO) - Information Sciences and Engineering (ENG) - Environmental and Geosciences (ENV) - Life Sciences (LS) - Mathematics (MAT) - Physics (PHY) - Social Sciences and Humanities (SOC)	**MSCA Keywords** MSCA Panels & Keywords.pdf **Link documento**	**Free keywords**	**Free text**
Life Sciences (LS)			

Contact details (*including email address of the supervisor*)

c.floridi@staff.univpm.it

OPTIONAL:
Title and goals
Provide the title of the topic and a short summary if you already have a project idea.
Projects ideas can also be defined and discussed with potential candidates later.
max 200 words

Title: *Optimization of AI-driven predictivity and confirmation systems for planning and monitoring imaging guided therapies of liver tumors*
§ To investigate the improvement of intra and post procedural imaging quality, using iterative reconstructions and vendor-specific artificial intelligence algorithms.
§ To investigate the implementation of imaging guidance software for liver tumor endovascular therapies includingboth chemoembolization and radioembolization with dedicated software for arterial feeders detection and drug depositionevaluation
§ To investigate an implementation of imaging guidance software for percutan liver tumor ablation, using C-arm CBCT imaging and facilities.