



20 - 23 May 2024, Hotel Hermitage, Isola d'Elba, Italy

10th Conference on PET, SPECT, and MR Multimodal Technologies, Total Body and Fast Timing in Medical Imaging

Abstract submission is open, deadline 29 Feb 2024 23:59 CET

As we continually dive deeper into diagnostic techniques, the importance of multimodality molecular imaging becomes indisputably evident. PET, SPECT, and MR remain formidable powerhouses for in-vivo molecular imaging. The fusion of PET (or SPECT) with MR information is primed to bridge the divide between molecular inspection and systemic diagnosis. The introduction of total-body PET and precision timing technologies has unequivocally emerged as a potent instrument, enhancing the information bandwidth of PET systems. In unison, they have radically transformed the paradigm of molecular imaging, shedding light on hitherto unexplored frontiers and pioneering unprecedented applications.

We are thrilled to announce the upcoming "PSMR - 10th Conference on PET, SPECT, and MR Multimodal Technologies, Total Body and Fast Timing in Medical Imaging" for 2024. Continuing the successful series of past conferences, we are introducing a fresh focus on emerging PET, SPECT, and MR technologies. **The event will be followed by the 8th Mediterranean Thematic Workshop on Advanced Molecular Imaging (MEDAMI 2024)**, held on May 24-26 in the nearby city of Livorno (<https://indico.cern.ch/event/1290221>), which you might also consider attending. Transportation will be organised from Elba to Livorno for participants of both conferences.

The conference will cover the technological aspects of PET, SPECT and MR multimodal systems and their clinical and preclinical applications alongside dedicated systems, novel technologies, and new tracers. A special session will be entirely dedicated to next-gen MR technologies with a potential impact on future multimodal systems, allowing the mitigation of issues caused by being together ("couple therapy"). Building

on the latest edition of the conference, the Total-body PET topics will now be an integral part of the event rather than a workshop. Furthermore, this year, we're excited to announce that the conference will join forces with the Fast Timing in Medical Imaging workshop, giving birth to a new and more comprehensive event for our community.

Call for abstracts

Abstracts must be submitted together with a 2-page summary of the work (main text, including title, authors, affiliation, figures, tables and references), to be uploaded in portable document format (PDF) using the "Attached files" feature of the submission system. We recommend using the template for Transactions Articles found under IEEE "Templates for Transactions" for the summary, not including the abstract.

Selected submissions will be invited to a special IEEE Transactions on Radiation and Plasma Medical Sciences issue. The highlights of the special issue will be shared with all the participants.

The main tracks of the 2024 edition will be:

- PET/MR and SPECT/MR
- Fast timing
- Total body imaging
- Next-gen clinical PET/CT
- Next-gen MR
- High-performance preclinical and organ-specific systems

For each topic, contributions in the following fields are accepted:

- Detectors and electronics
- Software and quantification
- Systems and applications

Authors must indicate the main track and contribution field. Submitted works should describe an original, previously unpublished work in English. Each author should ensure their summary describes the relevance and conclusions of their research and results. Submissions without a summary will be rejected.

The deadline for submission is the 29th of February 2024, 23:59 CET. Late abstracts and abstracts without a summary will not be considered. Abstract acceptance will be notified by the 22nd of March.

Important dates

- 29 February 2024: Abstract submission deadline
- 22 March 2024: Notification to authors
- 21 April 2024: Early registration deadline
- 20 May 2024: Conference opening

Updated info will be available on the **conference website**: <https://psmr2024.df.unipi.it/>. Any support request should be sent to the Conference Secretariat <psmr2024@lists.pi.infn.it>. We eagerly anticipate your participation in this year's PSMR Conference. Looking forward to welcoming you to the Conference!

The conference chairs,

Nicola Belcari
Paul Lecoq
Stefaan Vandenberghe
Michela Tosetti (Guest Chair)