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Imaging the guts: Introducing the Image Science Research developed in the Group IRIS

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A part of the IRIS (Image Reconstruction, Instrumentation and Simulations in medical applications) group activities at IFIC is framed within the area of Medical Physics, specifically in the Image Science area, which is concerned with the mathematical description of the imaging process. Our activities are aimed at improving image quality in any emission tomography modality. To this end we organize our research in three master lines: a) elaborating mathematical models of physical processes involved in the image formation, b) development of dedicated image reconstruction software for prototypes and, c) optimizing the image reconstruction process.

Our know-how is of interest to any application that can profit from having tomographic images of the interior of systems (animals, humans, trucks, buildings, etc.) which inner parts are not easily accessed. This is mainly achieved through the application of imaging techniques based on the detection of ionizing radiation.

Summary

Oral or poster presentation

Oral

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