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Radiation Protection Opportunities in Medical Imaging

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

A large part of medical imaging is based on techniques involving the use of ionizing radiations. This has spurred interest to reduce the risks associated with ionizing radiations for both patients and personnel.

This Special Issue aims at informing readers about innovative approaches to radiation protection in medical imaging implemented. Manuscripts that cover issues about justification and optimization and technological advances in image acquisition are encouraged. Of interest are applications of artificial intelligence enabling image acquisition with lower radiation dose exposure as well as radiation dose monitoring by means of dedicated software tools. Dose monitoring is particularly challenging in interventional radiology: we encourage submissions that describe technologies enabling real-time monitoring of the doses to patients as well as personnel in interventional radiology, including innovative dosimetry approaches and Internet of Things applications. Radiation protection of patients and staff is an important issue in nuclear medicine as well.