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in the field of gynaecology, a recent trend in the development of new technologies is the development of integrated multi-modal imaging systems. such systems have the potential to improve the assessment of gynaecological abnormalities as well as the early detection of cervical cancer. the non-invasive assessment of cervical cancer using integrated multi-modal systems has the potential to reduce the number of high-risk women undergoing conventional screening and improve clinical outcome. the application of such systems in the field of gynaecology requires a combined analysis of two or more different modalities of imaging. for example, a combined application of mri and ultrasound with the dual-modality probe represents the initial step towards such systems. the improved high-definition ultrasound imaging combined with the mri system provides an opportunity for the clinicians to provide the most appropriate and effective care to their patients in a more cost-effective manner. in this article, we discuss the current and potential future applications of multi-modal imaging systems in the field of gynaecology. over the last two decades, there have been many applications of pet radiopharmaceuticals, including cancer diagnosis, and therapy, in both nuclear medicine and molecular imaging. for example, the radiolabeled somatostatin analogues, such as octreotide (oct) and dotatoc, have been used for more than 20 years in the management of neuroendocrine tumors. these analogues have been labeled with various nuclides, such as f-18, in-111, tc-99m, ga-68, and cu-64, and the pet imaging of these radiolabeled somatostatin analogues is effective and convenient for monitoring tumor response to therapy.

Introduction To Medical Imaging Physics Engineering And Clinical Applications Rar

emerging imaging technologies such as diffusing-wave spectroscopy (dws), fluorescence lifetime imaging (flim), fluorescence polarization anisotropy (fpa), and fluorescence correlation spectroscopy (fcs) are being used for elucidating the dynamic structure of biological molecules. in recent years, fluorescence imaging methods have become an important tool for cell biology, and their applications in studying cell physiology and pathophysiology have been increasing. this review introduces basic principles, instrumentation, and quantitative methods of fluorescence imaging, and provides examples of various fluorescent probes that can be used to image biological structures and processes. the development of image-guided radiotherapy (igrt) has enabled a significant improvement in radiation dose conformity by the use of precise patient-specific image guidance. however, this patient-specific approach demands high-resolution imaging to facilitate image-guided patient positioning. in this work we develop a method to improve the image quality of low-resolution images acquired by cone-beam ct (cbct). the method is based on the optimization of the weights of the projections, which leads to the generation of high-resolution ct images. the method is applied to the ct reconstruction of three clinical cases, including a patient with a complex target region, where the high-resolution images allowed a better visualization of the target shape than the low-resolution cbct images. the developed method allows to significantly improve the image quality of low-resolution cbct images, and hence the confidence level of the igrt procedure. a method to estimate the image resolution of a cbct image is also developed. finally, we demonstrate how the low-resolution images can be used for the generation of high-resolution ct images, which are then used for patient positioning. 5ec8ef588b

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