Title (en)

USING TIME-OF-FLIGHT TO DETECT AND CORRECT MISALIGNMENT IN PET/CT IMAGING

Title (de)

VERWENDUNG DER FLUGZEIT ZUR DETEKTION UND KORREKTUR DER FEHLAUSRICHTUNG IN DER PET/CT-BILDGEBUNG

Title (fr)

UTILISATION DE TEMPS DE VOL POUR DÉTECTER ET CORRIGER UN DÉSALIGNEMENT DANS UNE IMAGERIE TEP/CT

Publication

EP 3566208 A1 20191113 (EN)

Application

EP 18700019 A 20180102

Priority

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- EP 2018050013 W 20180102

Abstract (en)

[origin: WO2018127470A1] In positron emission tomography (PET) imaging, PET imaging data (22) having TOF localization is reconstructed. TOF image reconstruction (30) is performed on the PET imaging data to produce a TOF reconstructed image (32). The TOF image reconstruction utilizes the TOF localization of the PET imaging data. Non-TOF image reconstruction (40) is also performed on the PET imaging data to produce a non-TOF reconstructed image (42). The non- TOF image reconstruction does not utilize the TOF localization of the PET imaging data. A comparison image (50) is computed which is indicative of differences between the TOF reconstructed image and the non TOF reconstructed image. An adjustment (54) is determined for the TOF image reconstruction based on the comparison image, such as alignment correction of an attenuation map (18), and the TOF image reconstruction is repeated on the PET imaging data with the determined adjustment to produce an adjusted TOF reconstructed image.

IPC 8 full level

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