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Motion estimation and motion correction using EBER in simultaneous PET-MR imaging

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The correction of head motion of dynamic PET in the context of PET-MR imaging can benefit from estimation either based on PET data, or on MRI data, when both modalities have been simultaneously acquired. Based on a recent method developed for a direct correction of PET list-mode data during the rebinning of PET dynamics into sinograms, this paper reports the study of the relation between modality, frame duration, smoothing strength and motion parameter accuracy in the recovery of the motion.

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