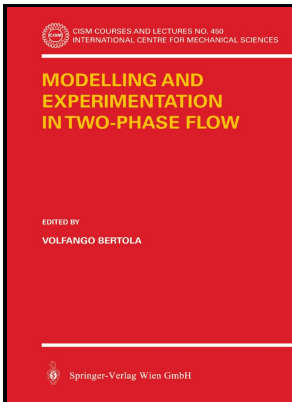


Photochromic tracer flow extraction via active contours

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Description: -

-Photochromic tracer flow extraction via active contours

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 1994.

This edition was published in 1994



Filesize: 62.32 MB

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Automatic detection and extraction algorithm of coronal loops based on match filter and oriented directivity

Orthogonal slices may be displayed to generate horizontal and vertical long axis HLA and VLA, respectively views of the heart middle and bottom row on images. This characterization itself may prove problematic.

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The proposed method utilizes coupled active contours to track the myocardium and the blood pool deformations.

HIDA scan

Typically, ^{18}F -FDG viability imaging is combined with a resting PET perfusion scan using ^{82}Rb or ^{13}N -ammonia tracer or even a resting SPECT scan. The mean left ventricular EF reserve was shown to be significantly higher in patients with normal myocardial perfusion imaging results 6. This meant that portions of the carotid, i.

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AUCR values were similar for 0—30, 30—60 and 60—90 second periods post tracer arrival. For an excellent review of the topic of partial volume correction specifically with regard to emission tomography see Erlandsson, et al 4.

High

While carotids are easily visualized in T1-weighted images, the boundaries are blurred due to the partial volume effect, resulting in a gradient of intensity values rather than a sharp delineation. Incremental prognostic value of myocardial flow reserve MFR over ischemia measures. Carotid segmentations could be used to simultaneously make estimates of the carotid diameter.

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These IDIFs as well as gold standard blood data drawn from the radial artery were used in the autoradiographic CBF model and a scale factor for

the IDIFs was estimated to match the CBF values. Carotids are clearly visible in the center of the image. PET techniques, by radiolabeling and measuring the kinetics of metabolic substrates, allow in vivo quantification of glucose uptake, oxygen consumption and fatty acid oxidation in the heart.

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