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Multimodality Fusion

Imaging of Plaque Cellular Activity with Contrast Enhanced MRI
Inter- and Intra-Observer Variability Assessment of in Vivo Carotid Plaque Burden Quantification Using Multi-Contrast Dark Blood MR Images;
Three-Dimensional Volume Registration of Carotid MR Images;
Characterization of Shear Stress on the Wall of the Carotid Artery Using Magnetic Resonance Imaging and Computational Fluid Dynamics;
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Sommario/riassunto

This publication starts of with a review of plaque imaging techniques, with an introduction of the segmentation techniques for plaque classification and quantification. Many aspects of plaque imaging techniques are presented in this publication, such as; medical image retrieval and database management, MRI techniques to differentiate stable versus high risk atherosclerosis, composition and morphology of atherosclerotic plaque, analysis of the soft tissue based on computer vision techniques, modelling of coronary artery biomechanics, Cardiac CT for the assessment of cardiovascular pathology wit
