

1. Record Nr.	UNINA9910783411203321
Titolo	Plaque imaging [[electronic resource]] : pixel to molecular level // edited by Jasjit S. Suri ... [et al.]
Pubbl/distr/stampa	Amsterdam ; ; Washington, DC, : IOS Press, c2005
ISBN	1-280-50483-8 9786610504831 1-4294-0243-1 1-60750-116-3 600-00-0521-0 1-60129-097-7
Descrizione fisica	1 online resource (488 p.)
Collana	Studies in health technology and informatics ; ; v. 113
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Disciplina	616.130754
Soggetti	Blood-vessels - Ultrasonic imaging Blood-vessels - Magnetic resonance imaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Title page; Preface; The Editors; Acknowledgements; The Contributors; Contents; Plaque Imaging Using Ultrasound, Magnetic Resonance and Computer Tomography: A Review; Medical Image Retrieval Based on Plaque Appearance and Image Registration; MRI Plaque Tissue Characterization and Assessment of Plaque Stability; Intravascular Ultrasound Elastography: A Clinician's Tool for Assessing Vulnerability and Material Composition of Plaques; Computer Vision Analysis of Collagen Fiber Bundles in the Adventitia of Human Blood Vessels; Image Based Biomechanics of Coronary Plaque Computed Tomographic Cardiovascular ImagingTomographic Plaque Imaging with CT; Absolute Measurement of Integrated Backscatter from Arterial Wall Structures; Ultrasound Imaging in the Analysis of Carotid Plaque Morphology for the Assessment of Stroke; On the Assessment of Texture Feature Descriptors in Intravascular Ultrasound Images: A Boosting Approach to a Feasible Plaque Classification; Real-Time Plaque Characterization and Visualization with Spectral Analysis of Intravascular Ultrasound Data; Coronary Plaque Analysis by

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;
Numerical Modeling of Coronary Drug Eluting Stents; Author Index

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
