Automatic detection of the carotid artery boundary on cross-sectional MR image sequences using a circle model guided dynamic programming

ID 1195008
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Year 2011
Title Automatic detection of the carotid artery boundary on cross-sectional MR image sequences using a circle model guided dynamic programming
Journal Biomedical engineering online
Volume 10
Pages / **Article-Number** 26
Systematic aerobe training has positive effects on the compliance of dedicated arterial walls. The adaptations of the arterial structure and function are associated with the blood flow-induced changes of the wall shear stress which induced vascular remodelling via nitric oxide delivered from the endothelial cell. In order to assess functional changes of the common carotid artery over time in these processes, a precise measurement technique is necessary. Before this study, a reliable, precise, and quick method to perform this work is not present.
Publisher BioMed Central
ISSN/ISBN 1475-925X
edoc-URL http://edoc.unibas.ch/dok/A6005199
Full Text on edoc No;
Digital Object Identifier DOI 10.1186/1475-925X-10-26
PubMed ID http://www.ncbi.nlm.nih.gov/pubmed/21477378
Document type (ISI) Journal Article