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Segmentation of carotid arterial walls using neural networks

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알림 만들기

Automatic detection of the intima-media thickness in ultrasound images of the common carotid artery using neural networks
RM Menchón-Lara, MC Bastida-Jumilla… - Medical & biological …, 2014 - Springer
… Some examples of **segmented** images are shown **in** Fig … **In** this sense, the suggested approach stands out for the considerable reduction **in** the **segmentation** error for the MA interface which, generally, is the most difficult to **segment** (see Fig …
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Medical decision-making system of ultrasound carotid artery intima–media thickness using neural networks [HTML] nih.gov
N Santhiyakumari, P Rajendran… - Journal of digital …, 2011 - Springer
… Analysis of contour lines of gray level distinction based on polar coordinate representation aids **in segmenting** the nodules automatically … (b) Preprocessing algorithms for **segmentation** of anatomical structures comprise of … a Common **carotid artery** hypertension subject sample …
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Fully automatic segmentation of ultrasound common carotid artery images based on machine learning
RM Menchón-Lara, JL Sancho-Gómez - Neurocomputing, 2015 - Elsevier
… Some examples of **segmented** images are shown **in** Fig … S. Badalamenti, J. SuriCharacterization of a completely user-independent algorithm for **carotid artery segmentation in** 2-d … EG Sifakis, T. Balkizas, KS NikitaUsing of the hough transform to **segment** ultrasound images of …
☆ 27회 인용 관련 학술자료 전체 2개의 버전

Carotid artery image segmentation using modified spatial fuzzy c-means and ensemble clustering [PDF] researchgate.net
M Hassan, A Chaudhry, A Khan, JY Kim - … methods and programs **in** …, 2012 - Elsevier
… proposed scheme; (i) finally applying morphological opening and closing operations; (j) the image **segmented by** FCMLSM … **In** such a case, FCM may be a better choice to **segment** out the image … k-Mean algorithm is commonly used **in** computer vision for image **segmentation** [30 …
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Name of Journal: *World Journal of Radiology*
Manuscript NO: 50045
Manuscript Type: ORIGINAL ARTICLE

Observational Study

Segmentation of carotid arterial walls using neural networks

Daniel D Samber, Sarayu Ramachandran, Anoop Sahota, Sonum Naidu, Alison Pruzan, Zahi A Fayad, Venkatesh Mani

Abstract

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Author: Rosa-María Menchón-Lara, M-Consu... **Publish Year:** 2011
Location: Cartagena (Murcia)

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The measurement of **Carotid Intima Media Thickness** (IMT) on Common **Carotid Artery** (CCA) is a principle marker of risk of cardiovascular disease. This paper presents a novel method of **using deep Convolutional Neural Network** (CNN) for identification and measurement of IMT on the far **wall** of the **artery**.

Cited by: 1 **Author:** S Sudha, K B Jayanthi, C Rajasekaran, Ni...
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Author: Jiayi Wu, Jingmin Xin, Xiaofeng Yang, ... **Publish Year:** 2019

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The IMT is measured by the doctor **using images** acquired with a B-scan **ultrasound** and this fact presents several problems. **Image segmentation** can detect the IMT throughout the **artery** length in an automatic way. This paper presents an effective **segmentation** method based on the **use** of a **neural network** ensemble.

Author: Rosa-María Menchón-Lara, M-Consu... **Publish Year:** 2011

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The measurement of **Carotid Intima Media Thickness** (IMT) on Common **Carotid Artery** (CCA) is a principle marker of risk of cardiovascular disease. This paper presents a novel method of **using deep Convolutional Neural Network** (CNN) for identification and measurement of IMT on the far **wall** of the **artery**.

Author: S Sudha, K B Jayanthi, C Rajasekara... **Publish Year:** 2018