

Title (en)  
LEARNING METHOD AND LEARNING DEVICE FOR IMPROVING IMAGE SEGMENTATION AND TESTING METHOD AND TESTING DEVICE USING THE SAME

Title (de)  
LERNVERFAHREN UND LERNVORRICHTUNG ZUR VERBESSERUNG DER BILDSEGMENTIERUNG UND TESTVERFAHREN UND TESTVORRICHTUNG MIT VERWENDUNG DAVON

Title (fr)  
PROCÉDÉ D'APPRENTISSAGE ET DISPOSITIF D'APPRENTISSAGE POUR AMÉLIORER LA SEGMENTATION D'IMAGES, PROCÉDÉ DE TEST ET DISPOSITIF DE TEST L'UTILISANT

Publication  
**EP 3467713 A8 20190605 (EN)**

Application  
**EP 18192803 A 20180905**

Priority  
US 201715723597 A 20171003

Abstract (en)  
A method for improving image segmentation by using a learning device is disclosed. The method includes steps of: (a) if a training image is obtained, acquiring (2- K)to (2-1)feature maps through an encoding layer and a decoding layer, and acquiring 1to Hlosses from the 1to the Hloss layers respectively corresponding to H feature maps, obtained from the H filters, among the (2-K)to the (2-1)feature maps; and (b) upon performing a backpropagation process, performing processes of allowing the (2-M)filter to apply a convolution operation to (M-1)-th adjusted feature map relayed from the (2-(M-1))filter to obtain M-th temporary feature map; relaying, to the (2-(M+1))filter, M-th adjusted feature map obtained by computing the Mloss with the M-th temporary feature map; and adjusting at least part of parameters of the (1-1)to the (1-K)filters and the (2-K)to the (2-1)filters.

IPC 8 full level  
**G06V 10/764** (2022.01)

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