Title (en)

SYSTEM AND METHOD FOR LOCATING POINTS OF INTEREST IN AN OBJECT IMAGE USING A NEURAL NETWORK

Title (de)

SYSTEM UND VERFAHREN ZUM FINDEN VON INTERESSIERENDEN PUNKTEN IN EINEM OBJEKTBILD UNTER VERWENDUNG EINES NEURONALEN NETZWERKS

Title (fr)

SYSTÈME ET PROCÉDÉ DE LOCALISATION DE POINTS D'INTÉRÊT DANS UNE IMAGE D'OBJET METTANT EN UVRE UN RÉSEAU DE NEURONES

Publication

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Application

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Abstract (en)

[origin: WO2006103241A2] The invention relates to a system for locating at least two points of interest in an object image. According to the invention, one such system uses an artificial neural network and has a layered architecture comprising: an input layer (E) which receives the object image; at least one intermediate layer (N_4), known as the first intermediate layer, consisting of a plurality of neurons (N_{41}) that can be used to generate at least two saliency maps (R_{5m}) which are each associated with a different pre-defined point of interest in the object image; and at least one output layer (R_5) which contains the aforementioned saliency maps (R_{5m}), said maps comprising a plurality of neurons which are each connected to all of the neurons in the first intermediate layer. According to the invention, the points of interest are located in the object image by the position (17_1, 17_2, 17_3, 17_4) of a unique global maximum on each of the saliency maps.

IPC 8 full level

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