

Title (en)
A METHOD FOR GENERATING A DATASET, A METHOD FOR GENERATING A NEURAL NETWORK, AND A METHOD FOR CONSTRUCTING A MODEL OF A SCENE

Title (de)
VERFAHREN ZUR ERZEUGUNG EINES DATENSATZES, VERFAHREN ZUR ERZEUGUNG EINES NEURONALEN NETZES UND VERFAHREN ZUM ERSTELLEN EINES MODELLS EINER SZENE

Title (fr)
PROCÉDÉ DE GÉNÉRATION D'UN ENSEMBLE DE DONNÉES, PROCÉDÉ DE GÉNÉRATION D'UN RÉSEAU NEURONAL ET PROCÉDÉ DE CONSTRUCTION D'UN MODÈLE D'UNE SCÈNE

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Abstract (en)
[origin: WO2021167910A1] A method for generating an image depth estimation neural network that estimates at least one depth measure of an image of a scene, the method comprising: receiving a first set of images, the first set of images being a plurality of images of a scene taken by one or more cameras; receiving, for each image in the first set of images, an associated focal length that is an estimate of a focal length of the camera that took the image; transforming the first set of images into a set of normalized training images, the set of normalized training images representing how images of the first set of images would appear if the images of the set had an joint focal length, wherein transforming an image of the first set of images into a normalized training image comprises rescaling the image, the rescaling representing a change in the associated focal length of the image such that it approaches the joint focal length; training the neural network to predict at least one depth measure of an image, wherein training the neural network comprises providing the neural network with a training dataset of pairs of input data and output data, wherein the input data of the training dataset comprises the set of normalized training images.

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See references of WO 2021167910A1

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