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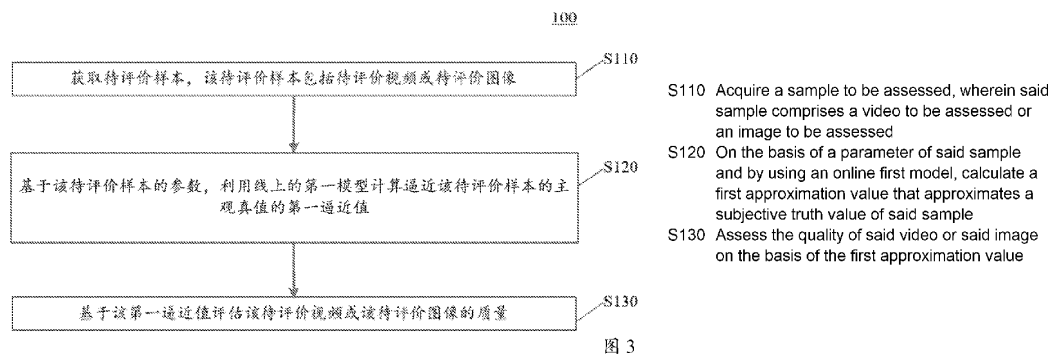
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(54) **Title:** METHOD FOR ASSESSING QUALITY OF IMAGE OR VIDEO ON BASIS OF APPROXIMATION VALUE, AND RELATED APPARATUS

(54) 发明名称: 基于逼近值评估图像视频质量的方法和相关装置



(57) **Abstract:** The present application relates to the technical field of computer vision (image) or machine learning of artificial intelligence, and provides a method for assessing the quality of an image or a video on the basis of an approximation value, and a related apparatus. The method may comprise: on the basis of a parameter of an acquired sample to be assessed and by using an online first model, calculating a first approximation value that approximates a subjective truth value of said sample, wherein the first model is a model obtained on the basis of an offline second model, the second model is a model obtained by taking k training samples and subjective truth values of the k training samples as a training set, the first model is a model obtained by fitting parameters of the k training samples by taking approximation values, of the k training samples, that are acquired by means of the second model, as a reference, and k is a positive integer; and assessing the quality of an image or a video on the basis of the first approximation value. By means of the present application, insofar as the hardware cost of a server end is not increased and the assessment accuracy is ensured, the quality of an image or a video can be assessed on the basis of an approximation value, which is fed back in real time and approximates a subjective truth value.

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本国际公布:

— 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 本申请提供了一种基于逼近值评估图像视频质量的方法和相关装置, 涉及人工智能的计算机视觉(图像)或机器学习等技术领域, 该方法可以基于获取的待评价样本的参数, 利用线上的第一模型计算逼近该待评价样本的主观真值的第一逼近值; 该第一模型为基于离线的第二模型得到的模型, 该第二模型为以k个训练样本和该k个训练样本的主观真值作为训练集得到的模型, 该第一模型为利用该第二模型获取的该k个训练样本的逼近值为参考, 对该k个训练样本的参数进行拟合得到的模型, k为正整数; 基于该第一逼近值评估图像视频质量。能够在不增加服务器端硬件成本和保证评估准确度的情况下, 基于实时反馈的逼近主观真值的逼近值评估图像视频质量。