

Title (en)

METHOD AND APPARATUS FOR STREAMING DATA

Title (de)

VERFAHREN UND VORRICHTUNG ZUM STREAMING VON DATEN

Title (fr)

PROCÉDÉ ET APPAREIL POUR DIFFUSER EN CONTINU DES DONNÉES

Publication

EP 3811618 A1 20210428 (EN)

Application

EP 19873269 A 20191018

Priority

- KR 20180125406 A 20181019
- KR 20190041110 A 20190408
- KR 20190077250 A 20190627
- KR 2019013733 W 20191018

Abstract (en)

[origin: KR20200044666A] The present invention relates to a data streaming method and a device thereof. According to one embodiment of the present invention, a terminal receives additional information of a plurality of image data having different qualities from a server; determines a network state between the terminal and the server; requests the server for image data of a quality corresponding to the determined network state among the plurality of image data based on the additional information; determines whether or not to perform an AI upscale on the received image data based on AI data as the AI data and the image data responding to the request are received; performs the AI upscale on the received image data through an upscale deep neural network (DNN) learned in interconnection with a downscale DNN of the server based on the determination about whether or not to perform the AI upscale; and requests the server for image data of a different quality corresponding to a changed network state based on the additional information as the network state is changed. Therefore, the present invention is capable of maintaining the quality of service (QoS) of image data reproduction at a predetermined level.

IPC 8 full level

H04N 19/132 (2014.01); **G06N 3/08** (2006.01); **H04N 19/184** (2014.01); **H04N 19/50** (2014.01); **H04N 19/85** (2014.01)

CPC (source: EP KR)

G06N 3/045 (2023.01 - EP); **G06N 3/08** (2013.01 - EP KR); **G06T 3/4046** (2013.01 - EP); **H04L 65/61** (2022.05 - EP); **H04L 65/70** (2022.05 - EP); **H04L 65/762** (2022.05 - EP); **H04L 65/80** (2013.01 - EP); **H04N 19/132** (2014.11 - KR); **H04N 19/184** (2014.11 - KR); **H04N 19/50** (2014.11 - KR); **H04N 19/85** (2014.11 - KR); **H04N 21/2356** (2013.01 - EP); **H04N 21/2358** (2013.01 - EP); **H04N 21/26258** (2013.01 - EP); **H04N 21/44209** (2013.01 - EP); **H04N 21/8456** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

CN 112868229 A 20210528; EP 3811618 A1 20210428; EP 3811618 A4 20210804; KR 102525577 B1 20230426; KR 20200044666 A 20200429

DOCDB simple family (application)

CN 201980068264 A 20191018; EP 19873269 A 20191018; KR 20190077250 A 20190627