

Title (en)

EGOCENTRIC POSE ESTIMATION FROM HUMAN VISION SPAN

Title (de)

EGOZENTRISCHE HALTUNGSSCHÄTZUNG AUS DER MENSCHLICHEN SICHTSPANNE

Title (fr)

ESTIMATION DE POSE ÉGOCENTRIQUE À PARTIR D'UNE ÉTENDUE DE VISION HUMAINE

Publication

**EP 4315248 A1 20240207 (EN)**

Application

**EP 22722587 A 20220329**

Priority

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- US 2022022282 W 20220329

Abstract (en)

[origin: WO2022212325A1] In one embodiment, a computing system may capture, by a camera on a headset worn by a user, images that capture a body part of the user. The system may determine, based on the captured images, motion features encoding a motion history of the user. The system may detect, in the images, foreground pixels corresponding to the user's body part. The system may determine, based on the foreground pixels, shape features encoding the body part of the user captured by the camera. The system may determine a three-dimensional body pose and a three-dimensional head pose of the user based on the motion features and shape features. The system may generate a pose volume representation based on foreground pixels and the three-dimensional head pose of the user. The system may determine a refined three-dimensional body pose of the user based on the pose volume representation and the three-dimensional body pose.

IPC 8 full level

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CPC (source: EP KR)

**G02B 27/0093** (2013.01 - EP KR); **G02B 27/017** (2013.01 - KR); **G02B 27/0172** (2013.01 - EP); **G06N 3/08** (2013.01 - KR); **G06T 7/194** (2017.01 - KR); **G06T 7/246** (2017.01 - KR); **G06T 7/55** (2017.01 - EP); **G06T 7/70** (2017.01 - EP); **G06T 7/73** (2017.01 - KR); **G06T 13/40** (2013.01 - KR); **G02B 2027/0138** (2013.01 - EP); **G02B 2027/014** (2013.01 - EP); **G02B 2027/0178** (2013.01 - KR); **G06T 2207/10016** (2013.01 - EP KR); **G06T 2207/20084** (2013.01 - EP KR); **G06T 2207/20221** (2013.01 - KR); **G06T 2207/30196** (2013.01 - EP); **G06T 2207/30244** (2013.01 - EP)

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