

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2025/020698 A1

(43) 国际公布日
2025 年 1 月 30 日 (30.01.2025)

(51) 国际专利分类号:
G06V 40/12 (2022.01)

(21) 国际申请号: PCT/CN2024/097000

(22) 国际申请日: 2024 年 6 月 3 日 (03.06.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202310931966.6 2023 年 7 月 27 日 (27.07.2023) CN

(71) 申请人: 腾讯科技(深圳)有限公司 (TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED) [CN/CN]; 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

(72) 发明人: 张镇鸿 (ZHANG, Zhenhong); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

(74) 代理人: 华进联合专利商标代理有限公司 (ADVANCE CHINA IP LAW OFFICE); 中国广东省广州市天河区珠江东路 6 号 4501 房 (部位: 自编 01-03 和 08-12 单元) (仅限办公用途), Guangdong 510623 (CN)。

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD,

(54) Title: FEATURE EXTRACTION MODEL PROCESSING METHOD AND APPARATUS, AND FEATURE EXTRACTION METHOD AND APPARATUS

(54) 发明名称: 特征提取模型处理方法、装置和特征提取方法、装置

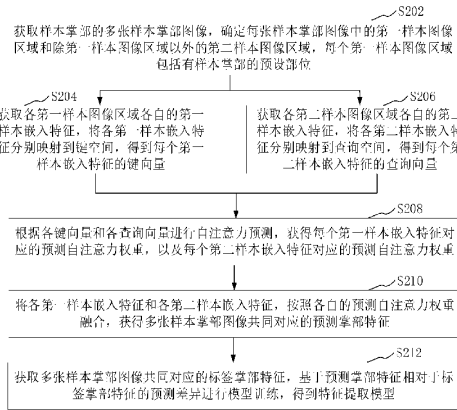


图 2

S202 Acquire a plurality of sample palm images of a sample palm, and determine a first sample image area and a second sample image area other than the first sample image area in each sample palm image, each first sample image area comprising a preset part of the sample palm

S204 Acquire respective first sample embedding features of the first sample image areas, and respectively map the first sample embedding features to a key space to obtain key vectors of the first sample embedding features

S206 Acquire respective second sample embedding features of the second sample image areas, and respectively map the second sample embedding features to a query space to obtain query vectors of the second sample embedding features

S208 Perform self-attention prediction on the basis of the key vectors and the query vectors to obtain predicted self-attention weights corresponding to the first sample embedding features, and predicted self-attention weights corresponding to the second sample embedding features

S210 Fuse the first sample embedding features and the second sample embedding features according to the respective predicted self-attention weights to obtain predicted palm features corresponding to all of the plurality of sample palm images

S212 Acquire tag palm features corresponding to all of the plurality of sample palm images, and perform model training on the basis of predicted differences between the predicted palm features and the tag palm features to obtain a feature extraction model

(57) Abstract: A feature extraction model processing method, comprising: acquiring a plurality of sample palm images of a sample palm, and determining a first sample image area comprising a preset part, and a second sample image area other than the first sample image area in each sample palm image (S202); mapping first sample embedding features of the first sample image areas to a key space to obtain key vectors (S204); mapping second sample embedding features of the second sample image areas to a query space to obtain query vectors (S206); performing self-attention prediction on the basis of the key vectors and the query vectors to obtain respective predicted self-attention weights of the first sample embedding features and the second sample embedding features (S208); fusing the first sample embedding features and the second sample embedding features according to the respective predicted self-attention weights to obtain predicted palm features (S210); and performing model training on the basis of predicted differences between the predicted palm features and tag palm features to obtain a feature extraction model (S212).

[见续页]

SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

(84) 指定国(除另有指明, 要求每一种可提供的地区
保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ,
NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚
(AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO,
PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN,
TD, TG)。

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种特征提取模型处理方法, 包括: 获取样本掌部的多张样本掌部图像, 确定各样本掌部图像
中包括预设部位的第一样本图像区域, 及除第一样本图像区域外的第二样本图像区域(S202); 将各第
一样本图像区域的第一样本嵌入特征映射到键空间, 得到各键向量(S204); 将各第二样本图像区域的
第二样本嵌入特征映射到查询空间, 得到各查询向量(S206); 根据各键向量和各查询向量进行自注意
力预测, 获得各第一样本嵌入特征和各第二样本嵌入特征各自的预测自注意力权重(S208); 将各第一
样本嵌入特征和各第二样本嵌入特征按照各自的预测自注意力权重融合, 获得预测掌部特征(S210); 基于
预测掌部特征与标签掌部特征的预测差异进行模型训练, 得到特征提取模型(S212)。