

(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 2025/055514 A1

(43) 国际公布日
2025 年 3 月 20 日 (20.03.2025)

(51) 国际专利分类号:
G06T 17/00 (2006.01)

(21) 国际申请号: PCT/CN2024/104448

(22) 国际申请日: 2024 年 7 月 9 日 (09.07.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202311176543.4 2023 年 9 月 12 日 (12.09.2023) CN

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(54) Title: THREE-DIMENSIONAL MODEL GENERATION METHOD AND APPARATUS, COMPUTER DEVICE, AND STORAGE MEDIUM

(54) 发明名称: 三维模型生成方法、装置、计算机设备和存储介质

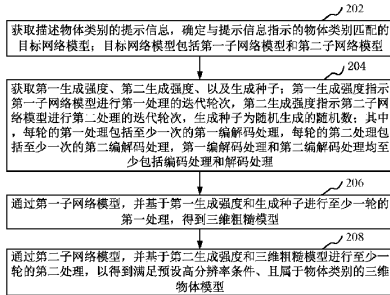


图 2

202 Obtain prompt information for describing an object category, and determine a target network model that matches the object category indicated by the prompt information, the target network model comprising a first sub-network model and a second sub-network model

204 Obtain a first generative intensity, a second generative intensity, and a generative seed, wherein the first generative intensity indicates a quantity of iteration rounds of performing first processing by the first sub-network model, the second generative intensity indicates a quantity of iteration rounds of performing second processing by the second sub-network model, and the generative seed is a random number generated randomly, wherein each round of the first processing comprises at least one instance of first encoding and decoding processing, each round of the second processing comprises at least one instance of second encoding and decoding processing, and the first encoding and decoding processing and the second encoding and decoding processing each comprise at least encoding processing and decoding processing

206 By means of the first sub-network model and on the basis of the first generative intensity and the generative seed, perform at least one round of the first processing, to obtain a three-dimensional rough model

208 By means of the second sub-network model and on the basis of the second generative intensity and the three-dimensional rough model, perform at least one round of the second processing, to obtain a three-dimensional object model that meets a preset high resolution condition and pertains to the object category

(57) Abstract: A three-dimensional model generation method. The method comprises: obtaining prompt information for describing an object category, and determining a target network model that matches the object category indicated by the prompt information (202), the target network model comprising a first sub-network model and a second sub-network model; obtaining a first generative intensity, a second generative intensity, and a generative seed, wherein the first generative intensity indicates a quantity of iteration rounds of performing first processing by the first sub-network model, the second generative intensity indicates a quantity of iteration rounds of

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

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本国际公布:

— 包括国际检索报告(条约第21条(3))。

performing second processing by the second sub-network model, and the generative seed is a random number generated randomly, wherein each round of the first processing comprises at least one instance of first encoding and decoding processing, each round of the second processing comprises at least one instance of second encoding and decoding processing, and the first encoding and decoding processing and the second encoding and decoding processing each comprise at least encoding processing and decoding processing (204); by means of the first sub-network model and on the basis of the first generative intensity and the generative seed, performing at least one round of the first processing, to obtain a three-dimensional rough model (206); and by means of the second sub-network model and on the basis of the second generative intensity and the three-dimensional rough model, performing at least one round of the second processing, to obtain a three-dimensional object model that meets a preset high resolution condition and pertains to the object category (208).

(57) 摘要: 一种三维模型生成方法, 所述方法包括: 获取描述物体类别的提示信息, 确定与所述提示信息指示的所述物体类别匹配的目标网络模型(202); 所述目标网络模型包括第一子网络模型和第二子网络模型; 获取第一生成强度、第二生成强度、以及生成种子; 所述第一生成强度指示所述第一子网络模型进行第一处理的迭代轮次, 所述第二生成强度指示所述第二子网络模型进行第二处理的迭代轮次, 所述生成种子为随机生成的随机数; 其中, 每轮的第一处理包括至少一次的第一编解码处理, 每轮的第二处理包括至少一次的第二编解码处理, 所述第一编解码处理和所述第二编解码处理均至少包括编码处理和解码处理(204); 通过所述第一子网络模型, 并基于所述第一生成强度和所述生成种子进行至少一轮的第一处理, 得到三维粗糙模型(206); 通过所述第二子网络模型, 并基于所述第二生成强度和所述三维粗糙模型进行至少一轮的第二处理, 以得到满足预设高分辨率条件、且属于所述物体类别的三维物体模型(208)。