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(54) Title: IDIOM BLANK-FILLING QUESTION ANSWER SELECTION METHOD AND APPARATUS, AND COMPUTER DEVICE

(54) 发明名称: 成语填空题的答案选择方法、装置和计算机设备

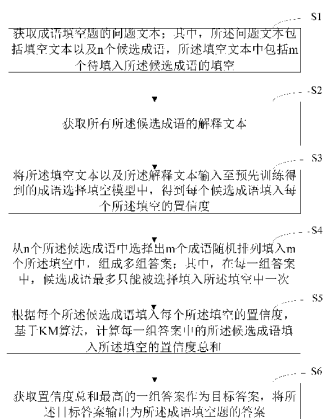


图 1

(57) Abstract: The present application relates to the technical field of artificial intelligence, and provides an idiom blank-filling question answer selection method and apparatus, a computer device, and a storage medium. The method comprises: obtaining a question text of an idiom blank-filling question, wherein the question text comprises a blank-filling text and n candidate idioms, and the blank-filling text comprises m blanks to be filled with the candidate idioms (S1); obtaining explanation texts of all the candidate idioms (S2); inputting the blank-filling text and the explanation texts into a pre-trained idiom selection blank-filling model, and obtaining a confidence degree for filling each candidate idiom into each blank (S3); selecting m idioms from the n candidate idioms to form multiple answer sets (S4); calculating the sum of the confidence degrees for filling the candidate idioms in each answer set into the blanks (S5); obtaining the answer set having the highest confidence degree sum, and outputting as an answer for the idiom blank-filling question (S6). The present solution uses artificial intelligence, and obtains idiom blank-filling answers with high efficiency and high accuracy. The present solution may also be applied to the field of smart education, so as to promote the construction of smart cities.

- S1 Obtain question text of idiom blank-filling question, wherein question text comprises blank-filling text and n candidate idioms, and blank-filling text comprises m blanks to be filled with candidate idioms
- S2 Obtain explanation texts of all candidate idioms
- S3 Input blank-filling text and explanation texts into pre-trained idiom selection blank-filling model, and obtain confidence degrees for filling each candidate idiom into each blank
- S4 Select m idioms from n candidate idioms to randomly fill m blanks, and form multiple answer sets, wherein in each answer set, candidate idioms can only be selected to fill blanks once at most
- S5 According to confidence degree for filling each candidate idiom into each blank, on basis of KM algorithm, calculate sum of confidence degrees for filling candidate idioms in each answer set into blanks
- S6 Obtain answer set having highest confidence degree sum to act as target answer, and output target answer as answer for idiom blank-filling question

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(84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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)。

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- 在修改权利要求的期限届满之前进行, 在收到该修改后将重新公布 (细则48.2(h))。
- 根据申请人的请求, 在条约第21条(2)(a)所规定的期限届满之前进行。

(57) 摘要: 涉及人工智能技术领域, 提供一种成语填空题的答案选择方法、装置、计算机设备和存储介质, 包括: 获取成语填空题的问题文本; 其中, 问题文本包括填空文本以及n个候选成语, 填空文本中包括m个待填入候选成语的填空(S1); 获取所有候选成语的解释文本(S2); 将填空文本以及解释文本输入至预先训练得到的成语选择填空模型中, 得到每个候选成语填入每个填空的置信度(S3); 从n个候选成语中选择出m个成语组成多组答案(S4); 计算每一组答案中的候选成语填入填空的置信度总和(S5); 获取置信度总和最高的一组答案, 输出为成语填空题的答案(S6)。该方案采用人工智能的方式, 高效率、高准确率得出成语填空的答案。该方案还可应用于智慧教育领域中, 以推动智慧城市的建设。