METHODS AND SYSTEMS FOR MULTI-INTENT RECOGNITION

ABSTRACT

In a described embodiment, a method for multi-intent recognition of user utterances is provided. The method comprises receiving a first multi-intent annotation dataset, training a capsule neural network model using the first multi-intent annotation dataset to obtain a trained capsule neural network model, receiving first data to be identified, the first data comprising user utterances, inputting the first data into the trained capsule neural network model to obtain a first output result, wherein the first output result includes a first predicted user intent set, determining a current scene intent set based on the first predicted user intent set, determining whether there are dependencies between the intents in the current scene intent set to obtain a first determination result, identifying a first intent statement and a second intent statement based on the first determination result, and merging the first intent statement and the second intent statement to obtain a response statement.

Fig. 1B