

Conversing verses - haiku generation using a LSTM-based auto-encoder matching model

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ABSTRACT

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Categories and Subject Descriptors

H.4 [Information Systems Applications]: Miscellaneous

General Terms

Theory

Keywords

text generation, neural networks, LSTM

1. INTRODUCTION

- neural networks so zakon - RNN, LSTM - generiranje zgodbe [6] - RNN, LSTM - abstraktivne text summarization [8] - CNN za image classification, RNN (LSTM) za caption generation - image captioning [9] - sklepanje, generiranje hipotez na podlagi naravnega besedila [2] tezave s katerimi se metode srečujejo (objektivno, avtomatizirano ovrednotenje - semantična smiselnost besedila) - ponekod lahko uporabimo metriko (kjer imamo target/label text) - image captioning - BLEU [5] - METEOR [1] - ponekod nimamo "pravega"/target/label teksta, in tako niso možna avtomatska ovrednotenja (ovrednotijo anketiranci, human evaluation) - generiranje kitajskih pesmi [10] - Haiku generation using seed word(s), associations, heuristics for selecting optimal one [4].

- clanki s katerimi primerjamo, vzamemo za osnovo - generiranje vsakdanjih pogovorov. Tri nevronske mreže se uporabijo za; LSTM za encodiranje ene replike v semantično predstavitev -> simple feedforward mreža za mapiranje semantične replike v semantiko odgovora -> LSTM decoder za tvorjenje stavka iz dobljene nove semantike. [3] - generiranje besedila rapperskih pesmi z LSTM [7]. - primerjamo lahko

svojo metodo z [4], ki tudi se ukvarja z generiranjem haiku-jev

- ideja - generiranje haikov, nova metoda motivacija - LSTM ima zmoglost posnemati ritem, značilnosti poezije, kot so uporaba za zvrst značilnih fraz, posnemanje sloga pisanja [7] - nov način navezave med verzi - pogovor (vrstici haikuja, encoder-decoder se pogovarjata) metodologija, postopek - generiranje prve vrstice z lstm - generiranje naslednjih vrstic v obliki pogovora (uporaba encoder/decoder pristopa)

2. DRUGI NASLOVI

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3. CONCLUSIONS

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4. ACKNOWLEDGMENTS

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