



Deep Poetry: A Chinese Classical Poetry Generation System

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Introduction

In this work, we demonstrate a Chinese classical poetry generation system called Deep Poetry. Existing systems for Chinese classical poetry generation are mostly template-based and very few of them can accept multi-modal input. Unlike previous systems, Deep Poetry uses neural networks that are trained on over 200 thousand poems and 3 million ancient Chinese prose. Our system can accept plain text, images or artistic conceptions as inputs to generate Chinese classical poetry. More importantly, users are allowed to participate in the process of writing poetry by our system. For the user's convenience, we deploy the system at the WeChat applet platform, users can use the system on the mobile device whenever and wherever possible.

Contributions

- Multi-modal input such as plain text, images or artistic conceptions can be accepted by our system.
- Our system allows users to participate in the process of generating.
- Our system is deployed at the WeChat applet platform for easy access.

Notes

- The WeChat QR code of our system is in the top left corner of this poster
- The Web version is also available at:
<https://poem.dicalab.cn>

Demonstration

The main functions of our system are generating poetry with multi-modal input, assisting users to write poetry and a word puzzle about poetry.

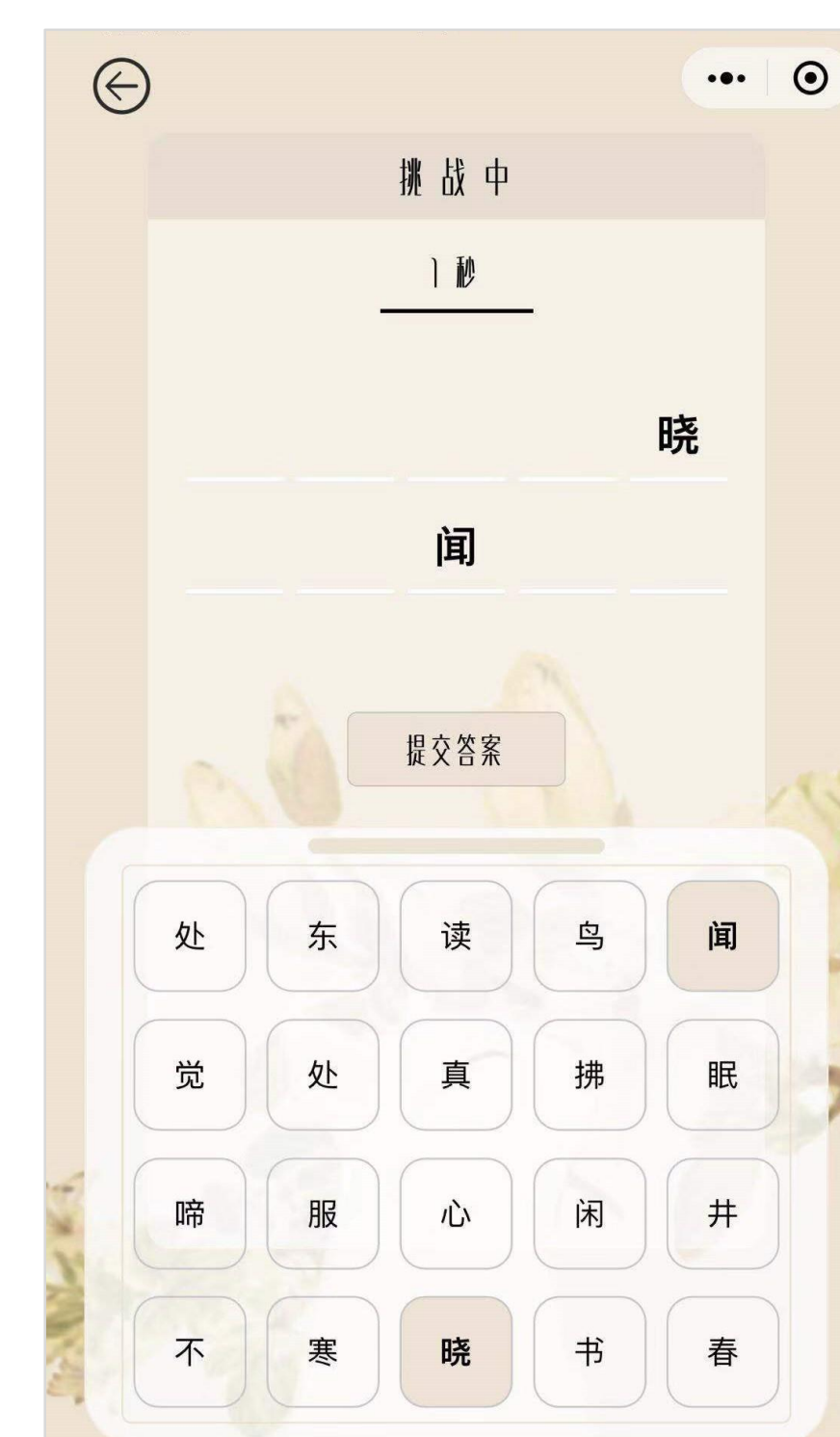


* Generating Chinese poetry using the *images, plain text or artistic conceptions*

* Generation result



* Assisting users to write poems



* Word puzzle game



* Poetry card

Architecture

The model which our system used consists of three components: a powerful method to process input, a self-attention neural network to generate poetry, and a screening mechanism for results.

