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## A Structural, Time Aware, Coordinated Tag Generation Based on Transformer Network

Prof. Shwetha G R<sup>1</sup>, Snehith Prasad C H<sup>2</sup>, Shiva Prasad C<sup>3</sup>

Assistant Professor, Department of Information Science and Engineering<sup>1</sup> Students, Department of Information Science and Engineering<sup>2,3</sup> S J C Institute of Technology, Chickballapur, India

**Abstract:** The content quality of shared knowledge in Stack Overflow (SO) is critical in supporting software developers with their programming problems. Thus, it allows its users to suggest editing the software to improve the quality of a post. However, existing all research shows that many suggested edits in SO are rejected due to undesired contents or violating editing guidelines. Such a scenario frustrates or demotivates users who would like to conduct good-quality edits. we propose Semantically Tag and Score Recommendation, with the use of the deep learning-based approach that automatically recommends tags or grades or scores through learning the semantics of both tags, score, grade and questions in such software CQA. First, word embedding is employed to convert text information to high-dimension vectors for better representing questions and tags. Second, a Multitasking, the core modules of Semantically Tag and Score Recommendation, is designed to capture short and long semantics. Third, the learned semantic vectors are fed into a gradient descent-based algorithm for classification.

Keywords: Tag Generation

## REFERENCES

- [1]. Y. Mehmood and V. Balakrishnan, An enhanced lexicon-based approach for sentiment analysis: A case study on illegal immigration, Online Inf. 0295.
- [2]. Y. Oksuz and E. Demir, Comparison of open-ended questions and mul- tiple choice tests in terms of psychometric features and student perfor- 10.16986/HUJE.2018040550.
- [3]. L. Galhardi, H. Senefonte, [3] D. S. Thom, and J. R. Brancher, Exploring distinct features for automatic short answer grading, in Proc. Conf., doi: 10.5753/eniac.2018.4399.
- [4]. M. Marelli, L. Bentivogli, M. Baroni, R. Bernardi, S. Menini, and R. Zamparelli, SemEval-2014 task 1: Evaluation of compositional dis- tributional semantic models on full sentences through semantic related- ness and textual entailment, in Proc. 8th Int. Workshop Semantic Eval.
- [5]. S. Jordan and T. Mitchell, E-assessment for learning? The potential of short-answer free- text questions with tailored feedback, Brit. J. Educ.
- [6]. O. Bukai, R. Pokorny, and J. Haynes, An automated short-free-text scor- ing system: Development and assessment, in Proc. 20th Interservice/Ind.
- [7]. N. Othman, R. Faiz, and K. Smali, Manhattan siamese LSTM for question retrieval in community question answering, in Proc. Int. Conf. [30] U. Masaki and U. Yuto, Automated short-answer grading using deep neural networks and item response theory, in Proc. Int. Conf. Artif. Intell.
- [8]. C. Sung, T. Dhamecha, S. Saha, T. Ma, V. Reddy, and R. Arora, Pre- training BERT on domain resources for short answer grading, in Proc. Conf. Empirical Methods Natural Lang. Process. 9th Int. Joint Conf. 10.18653/v1/D19-1628.
- [9]. J. Pennington, R. Socher, and C. Manning, Glove: Global vectors for word representation, in Proc. Conf. Empirical Methods Natural Lang.

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