

# Deep Learning Model for News Recommendations

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## ABSTRACT

The amount of data increases every day, and it is important that we find the right information and deliver them selectively. Based on Convolutional Matrix Factorization model[1], we extended a deep neural network model of the news recommendation for the personalized preference. We assumed that the residence time which the news reader spends reading the news shows the personalized preference or rating. In order to normalize the personalized rating more accurately, we implemented the Parzen window smoothing and the cumulative distribution function. We extracted the item feature vector from the context in the news article by using Word2Vec[2] embedding model and convolutional neural network.

## REFERENCES

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