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Jumlah Penulis : Tiga (RP Nawangsari, R Kusumaningrum, A Wibowo)

Status Pengusul : Penulis ke 3 (Tiga)

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2. Ruang lingkup dan kedalaman pembahasan:

Paper ini membahas tentang penggunaan Word2Vec sebagai alternatif solusi untuk pembuatan fitur pada teks untuk sentiment analysis pada review hotel dalam bahasa Indonesia. Penelitian ini dilakukan karena proses pembuatan fitur secara manual sangat memakan waktu dan biaya. Untuk mendapatkan performa sentiment analysis yang terbaik, penulis melakukan evaluasi terhadap tiga parameter Word2Vec yaitu arsitektur model, metode evaluasi, dan dimensi vektor

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Universitas Diponegoro

Jabatan Fungsional : Guru Besar

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2. Ruang lingkup dan kedalaman pembahasan:

Paper ini membahas tentang mendapatkan kinerja analisis sentimen yang tinggi, dengan mengevaluasi tiga parameter dari Word2Vec, yaitu arsitektur model Word2Vec, metode evaluasi, dan dimensi vektor. Penelitian ini dilakukan pada korpus khusus yang diusulkan oleh penulis yang terdiri dari 2500 ulasan hotel dalam bahasa Indonesia (1250 ulasan positif dan 1250 ulasan negatif). Dalam evaluasi ini, penulis menggunakan tiga parameter dari Word2Vec dan mengevaluasi kombinasi terbaik dari ketiga parameter tersebut untuk memperoleh akurasi analisis sentimen yang terbaik.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Dalam studi tersebut, telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 5.

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Semarang, 3 April 2023

Reviewer 2

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Word2vec for Indonesian sentiment analysis towards hotel reviews: An evaluation study

Nawangsari, Rizka Putri; [Kusumaningrum, Retno](#) ; [Wibowo, Adi](#)[Save all to author list](#)^a Department of Informatics, Universitas Diponegoro, Jl. Prof. Soedarto SH Tembalang, Semarang, 50275, Indonesia29 ^{98th percentile}
Citations in Scopus7.16
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Views count [View all metrics](#) [View PDF](#) [Full text options](#) [Export](#) **Abstract**[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Hand-crafted features engineering is a labor-intensive and highly-cost task. In this paper, we implement Word2Vec as an alternative solution of hand-crafted features for sentiment analysis of hotel reviews in the Indonesian language. To obtain the highest performance of sentiment analysis, we evaluate three parameters of Word2Vec include Word2Vec model architecture, evaluation method, and vector dimension. This evaluation process was implemented towards our proposed corpus for a specific domain, i.e. hotel reviews, consists of 2500 hotel reviews in the Indonesian language (1250 positive reviews and 1250 negative reviews). The result shows that the highest accuracy values are obtained under the combination of the following parameters, namely the architecture of Word2Vec Model is Skip-gram model, the evaluation method is Hierarchical Softmax, as well as the vector dimension is 100. The Skip-gram model results highest accuracy for words that rarely appear, such as in sentiment analysis task, whereas the Hierarchical Softmax provides better

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Aspect-Based Sentiment Analysis of Indonesian-Language Hotel Reviews Using Long Short-Term Memory with an Attention Mechanism

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results since during the training process using a binary tree model to represent all of the words in the vocabulary and leaf nodes representing rare words so that rarely appearing words will inherit vector representations in it. Furthermore, to obtain the optimal value of accuracy, then we should increase the vector dimensions and amount of data simultaneously. © 2019 The Authors. Published by Elsevier B.V.

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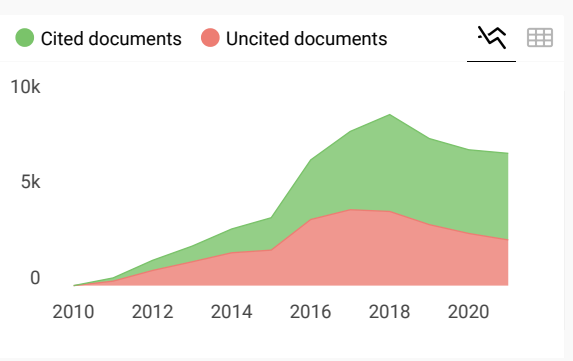
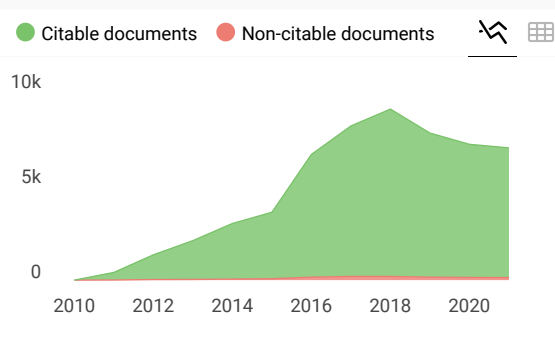
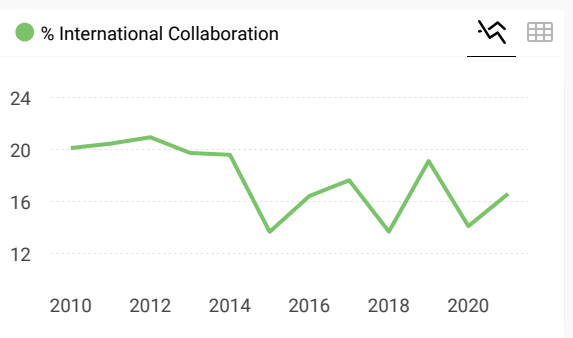
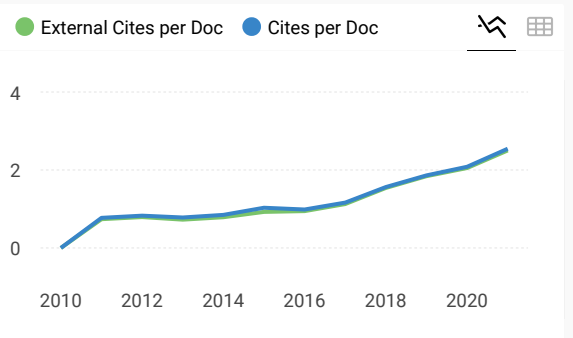
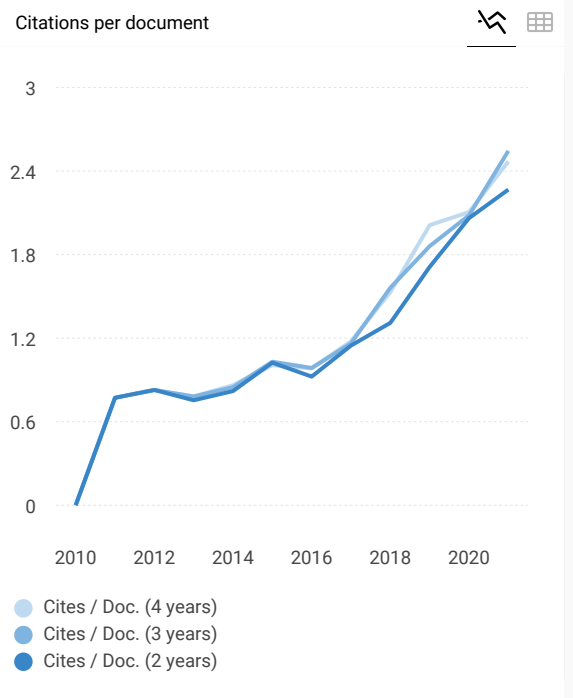
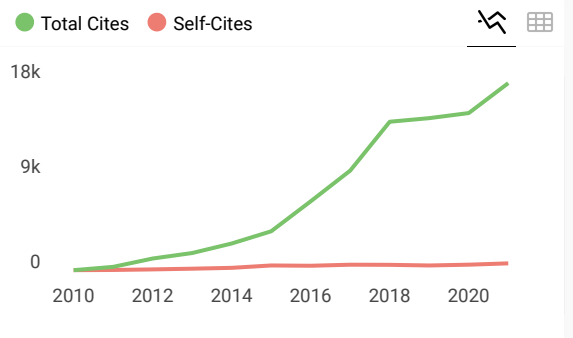
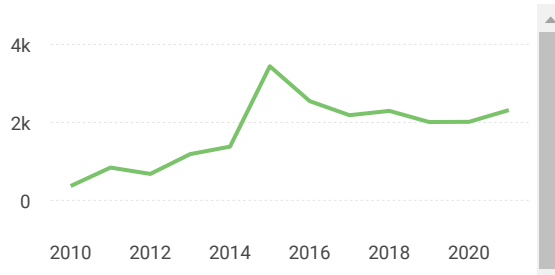
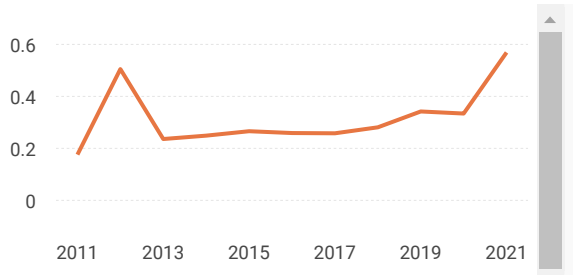
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4th International Conference on Computer Science and Computational Intelligence 2019
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Preface

Widodo Budiharto^a, Derwin Suhartono^a, Alexander A. S. Gunawan^a, Dewi Suryani^a,
Meiliana^a, Harry Ham^a, Azani Cempaka Sari^a

^aComputer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia 11480

Abstract

The 4th International Conference on Computer Science and Computational Intelligence (ICCSCI 2019) is annual forum for researchers, engineers, and scientist to disseminate their knowledge and research on Computer Science, Computational Intelligence, and Information Technology. We are pleased to announce the theme of the ICCSCI 2019 is: Enabling Collaboration to Escalate Impact of Research Results for Society. The conference warmly welcomes prospected authors to submit their research and idea to ICCSCI 2019 and share the valuable experiences with the scientist and scholars around the world.

ICCSCI 2019 received **156** manuscripts from **eleven** countries, namely **Indonesia, China, Finland, India, Malaysia, Nigeria, Oman, Philippines, Singapore, Taiwan, and United States of America**. After careful review process of **156** manuscripts, **86** manuscripts were accepted or approximately **55%** rate of acceptance. These manuscripts are divided into seven tracks:

1. Intelligent System and Machine Vision
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3. Big Data and Information Technology
4. Foundations of Computing and Theoretical Computer Science
5. Computational Linguistic and Audio Processing
6. Internet of Thing and Robotics
7. Multimedia, Game Development and Virtual Reality

We would like to appreciate all participants, keynote speakers, reviewers, and committee for the contributions to the conference program and proceeding. We would like to express our gratitude to the reviewers for the valuable review and suggestion, so that we can maintain the quality of this proceeding very well. This conference is held in success collaboration between Program committee and Technical committee. We would like to thank Elsevier for supporting publication of this conference proceeding.

We are looking forward for the next event in computer science and computational intelligence in the future.

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