

SURAT KETERANGAN

Hal: Penerbitan Naskah Publikasi

Yang bertanda tangan di bawah ini saya:

Nama : Arif Dwi Laksito, M. Kom

NIK : 190302150

Prodi : S1 Informatika

Selaku dosen Pembimbing skripsi mahasiswa berikut:

Nama : Avis Priyati

NIM : 18.11.1982

Judul Skripsi : Perbandingan Algoritma Faktorisasi Matriks Pada Collaborative Filtering Recommender System

Melalui surat ini, memberitahukan bahwa naskah publikasi dengan judul tersebut telah kami submit ke konferensi Internasional “International Conference on Information and Communications Technology (ICOIACT 2022)” dengan status “**IN REVIEW *)**”, naskah akan dipresentasikan pada **24-25 Agustus 2022**. Untuk menghindari kemungkinan plagiarisme, mohon untuk tidak menerbitkan secara online pada resource center Universitas Amikom Yogyakarta.

Atas perhatian dan kerjasamanya, saya ucapkan terima kasih.

Yogyakarta, 20 April 2022



Arif Dwi Laksito, M. Kom

****) Bukti Surat Review Paper (ICOIACT 2022) kami lampirkan***

5th ICOIAC 2022

International Conference on Information and Communications Technology

5th ICOIAC 2022



#27 (1570805406): The Comparison Study of Matrix Factorization on Collaborative Filtering Recommender System

#27 (1570805406): The Comparison Study of Matrix Factorization on Collaborative Filtering Recommender System

arXiv

Property	Change Add	Value
Conference and track		2022 5th International Conference on Information and Communications Technology (ICOIAC) - Track 2 - Con

Authors	Drag to change order	Name	ID	Edit	Flag	Affiliation	Email	Country
						(edit for paper)		
	☰	Avis Priyati	1949483	✎		Universitas Amikom Yogyakarta, Indonesia	avis.priyati@students.amikom.ac.id	Indonesia
	☰	Arif Dwi Laksito	1345152	✎		Universitas Amikom Yogyakarta, Indonesia	arif.laksito@amikom.ac.id	Indonesia
	☰	Heri Sismoro	1555487	not creator		Universitas Amikom Yogyakarta, Indonesia	herisismoro@amikom.ac.id	Indonesia

Title	✎	<i>The Comparison Study of Matrix Factorization on Collaborative Filtering Recommender System</i>
Abstract	✎	The recommendation system has been a vital study topic in recent years, so many scientists and academics across the world are interested in researching the subject. Music, movies, books, news, commercial items, and search inquiries are all examples of applying the recommendation system. One of the most common and successful strategies in recommendation systems is collaborative filtering. This method seeks to find similar users who are active to recommend an item. The author proposes to compare model-based collaborative filtering techniques using matrix factorization algorithms, such as alternating least squares (ALS), singular value decomposition (SVD), Alternating Least Squares weight regularization (ALS-WR) and SVD++. Furthermore, the quality of the recommendation system is determined using three datasets with various features. According to the research findings of four algorithms (ALS, ALS-WR, SVD, SVD++), only the MovieLens dataset can overcome the sparsity problem, as seen by the RMSE score below 1.
Keywords	✎	Collaborative filtering; Matrix factorization; ALS; ALS-WR; SVD; SVD++
Topics	✎	Computing and Processing; Soft Computing, Fuzzy Logic and Artificial Neural Networks; Data Mining, Web Technolog
Status	⊗	Active (has manuscript) Can upload 6 pages (type) until Jun 15, 2022 12:59 America/New_York.

Review manuscript	Document (show)	Pages	File size	Changed	Check format / Report problem
		5	496,021	Apr 19, 2022 23:43 America/New_York ↻	<input checked="" type="checkbox"/> checked Apr 19, 2022 23:43 America/New_Yc without errors

Stamped for attendee proceedings
However, authors cannot upload:

Personal notes



You are the creator, an author and a reviewer for this paper.

Reviews



Reviews are not yet visible to authors.