

## **History Jurnal Sebagai Koresponden Author di Jurnal IJEECS**

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### Identitas Jurnal:

- Jenis Jurnal: Jurnal Internasional Bereputasi dan Berfaktor Dampak Terindex Scopus Q2
- Nama Jurnal: The Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)
- Nama Penerbit: Intelektual Pustaka Media Utama
- Judul: A hybrid data mining for predicting scholarship recipient students by combining K-means and C4.5 methods
- Nama Penulis:
  1. Halifia Hendri (First Author sekaligus Koresponden Author)
  2. Harkamsyah Andrianof
  3. Riska Robianto
  4. Hasri Awal
  5. Okta Andrica Putra
  6. Romi Wijaya
  7. Aggy Pramana Gusman
  8. Muhammad Hafizh
  9. Muhammad Pondrinal
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35286	10-20	Computer	Hendri, Andrianof, Roblanto, Awal, Putra	<a href="#">A HYBRID DATA MINING FOR PREDICTING SCHOLARSHIP RECIPIENT...</a>	IN REVIEW

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## #35286 Summary

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### Submission

Authors	Halifia Hendri, Harkamsyah Andrianof, Riska Robianto, Hasri Awal, Okta Andrica Putra
Title	A Hybrid Data Mining for Predicting Scholarship Recipient Students by Combining K-Means and C4.5 Methods
Original file	None
Supp. files	<a href="#">35286-68979-1-SP.DOCX</a> 2023-10-20 <a href="#">ADD A SUPPLEMENTARY FILE</a>
Submitter	Mr Halifia Hendri
Date submitted	October 20, 2023 - 07:46 AM
Section	Computer_and_Informatics
Editor	Wanquan Liu (Review) Jacek Stando (Review) Maja Stula (Review) Seifedine Kadry (Review) Vassilis S. Kodogiannis, CEng (Review)

### Status

Status	In Review
Initiated	2023-10-20
Last modified	2023-10-20

### Submission Metadata

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Bio Statement	I am a Computer Science Lecturer

### Title and Abstract

Title	A Hybrid Data Mining for Predicting Scholarship Recipient Students by Combining K-Means and C4.5 Methods
Abstract	The preeminent portion of the extant student body expresses a desire to secure academic scholarships, a sentiment particularly pronounced among individuals originating from socioeconomically disadvantaged backgrounds. The primary objective of this scholarly investigation is the formulation of a Hybrid Data Mining paradigm, achieved through the amalgamation of the K-Means and C4.5 methodologies. The K-Means methodology is adeptly employed to effectuate clusterization, while the C4.5 methodology is leveraged for the purpose of prediction and the instantiation of Decision Trees. The sequential phases of this research encompass initial data input, succeeded by the indispensable pre-processing stage involving meticulous data selection, cleaning, and transformation. Subsequently, data processing is executed through the judicious application of both the K-Means and C4.5 methodologies. The ultimate phase culminates in the generation of Clustered Data and Decision Trees, emblematic of the accrued knowledge derived from this scholarly endeavor. The dataset under scrutiny comprises 200 students who have duly enrolled for scholarship consideration. The ensuing findings manifest that the entire corpus of 200 data instances can be adeptly stratified into three distinct clusters—namely cluster 0, cluster 1, and cluster 2—comprising 119, 48, and 33 student data members, respectively. Subsequent to this, a subset of 81 data members originating from clusters 1 and 2 is subjected to the C4.5 methodology for predictive modeling and Decision Tree synthesis. Within the purview of this investigation, 61 data instances serve as the training dataset, with the remaining 20 serving as the testing dataset. The consequential outcomes reveal a commendable precision in prediction, with 17 students accurately forecasted and a minor divergence of 3 inaccuracies. Consequently, the veritable accuracy quotient for this research endeavor is quantified at an impressive 85%.

### Indexing

Academic discipline and sub-disciplines	—
Keywords	Hybrid Method; C.45 Method; K-Means Algorithm; Students Scholarship Recipients; University
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## #35286 Review

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### Submission

Authors	Halifia Hendri, Harkamsyah Andrianof, Riska Robianto, Hasri Awal, Okta Andrica Putra
Title	A Hybrid Data Mining for Predicting Scholarship Recipient Students by Combining K-Means and C4.5 Methods
Section	Computer_and_Informatics
Editor	Wanquan Liu (Review) Jacek Stando (Review) Maja Stula (Review) Seifedine Kadry (Review) Vassillis S. Kodogiannis, CEng (Review)


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#### Round 1

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## #35286 Review

SUMMARY REVIEW EDITING

### Submission

Authors: Harkamsyah Andrianof, Riska Robianto, Hasri Awal, Okta Andrica Putra, Romi Wijaya, M. Hafizh, Muhammad Pondrihal

Title: A Hybrid Data Mining for Predicting Scholarship Recipient Students by Combining K-Means and C4.5 Methods

Section: Computer\_and\_Informatics

Editor: Seifedine Kadry (Review), Vassilis S. Kodogiannis, CEng (Review), Wanquan Liu (Review), Jacek Stando (Review), Maja Stula (Review)

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SUMMARY REVIEW **EDITING**

### Submission

Authors: Harkamsyah Andrianof, Riska Robianto, Hasri Awal, Okta Andrica Putra, Romi Wijaya, M. Hafizh, Muhammad Pondrial, Aggy Pramana Gusman, Halifia Hendri

Title: A Hybrid Data Mining for Predicting Scholarship Recipient Students by Combining K-Means and C4.5 Methods

Section: Computer\_and\_Informatics

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### A hybrid data mining for predicting scholarship recipient students by combining K-means and C4.5 methods

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Article Info	ABSTRACT
<p><b>Article history:</b></p> <p>Received Oct 20, 2023 Revised Jan 2, 2024 Accepted Jan 11, 2024</p> <p><b>Keywords:</b></p> <p>Hybrid method C4.5 method K-means method Students Scholarship recipients University</p>	<p>This scholarly investigation delves into the strong desire for academic scholarships within the student body, especially prominent among socioeconomically disadvantaged individuals. The study aims to formulate a hybrid data mining paradigm by synergizing the K-means and C4.5 methodologies. K-means is applied for clusterization, while C4.5 facilitates prediction and decision tree instantiation. The research unfolds in sequential phases, commencing with data input and progressing through meticulous pre-processing, encompassing data selection, cleaning, and transformation. The novelty lies in successfully integrating the K-means and C4.5 methodologies, culminating in the hybrid data mining method. The dataset comprises 200 students seeking scholarships, revealing effective stratification into three clusters—cluster 0, cluster 1, and cluster 2—with 119, 48, and 33 students, respectively. The K-means method proves highly suitable, especially when combined with C4.5, for predicting scholarship recipients. A subset of 81 students from clusters 1 and 2 undergoes predictive modeling using C4.5, resulting in a commendable 85% accuracy, with 17 accurate forecasts and 3 minor inaccuracies. This research significantly enhances scholarship selection efficiency, particularly benefiting socioeconomically disadvantaged students.</p>

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