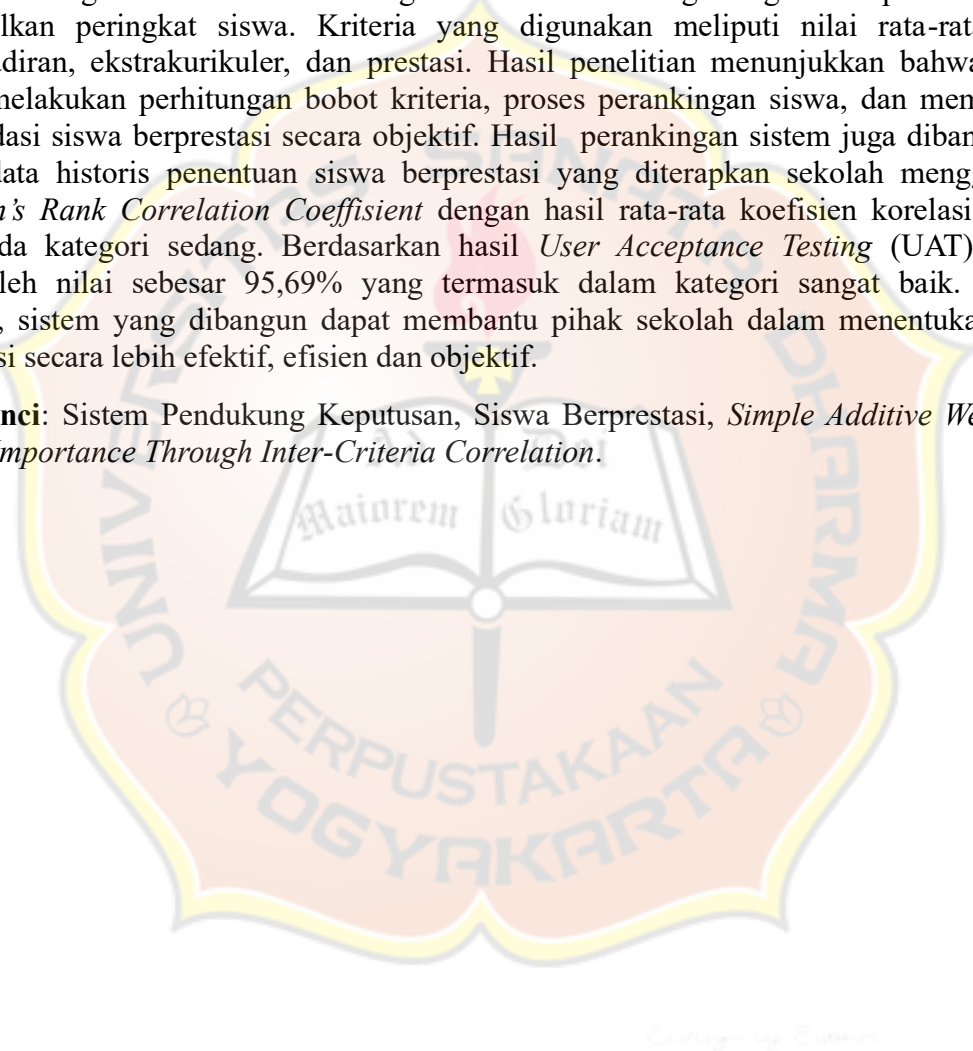


ABSTRAK

Pemilihan siswa berprestasi merupakan proses penting dalam memberikan penghargaan kepada siswa yang memiliki pencapaian terbaik. Namun, proses penilaian yang melibatkan banyak kriteria sering kali membutuhkan waktu yang lama dan berpotensi menimbulkan subjektivitas. Oleh karena itu, penelitian ini bertujuan membangun Sistem Pendukung Keputusan Pemilihan Siswa Berprestasi Berbasis Web Menggunakan Metode *Hybrid Simple Additive Weighting* (SAW) Dan *Criteria Importance Through Inter-Criteria Correlation* (CRITIC). Metode CRITIC digunakan untuk menentukan bobot kriteria secara objektif, sedangkan metode SAW digunakan untuk menghitung nilai preferensi dan menghasilkan peringkat siswa. Kriteria yang digunakan meliputi nilai rata-rata rapor, ketidakhadiran, ekstrakurikuler, dan prestasi. Hasil penelitian menunjukkan bahwa sistem mampu melakukan perhitungan bobot kriteria, proses perankingan siswa, dan memberikan rekomendasi siswa berprestasi secara objektif. Hasil perankingan sistem juga dibandingkan dengan data historis penentuan siswa berprestasi yang diterapkan sekolah menggunakan *Spearman's Rank Correlation Coefficient* dengan hasil rata-rata koefisien korelasi sebesar 0,514 pada kategori sedang. Berdasarkan hasil *User Acceptance Testing* (UAT), sistem memperoleh nilai sebesar 95,69% yang termasuk dalam kategori sangat baik. Dengan demikian, sistem yang dibangun dapat membantu pihak sekolah dalam menentukan siswa berprestasi secara lebih efektif, efisien dan objektif.

Kata Kunci: Sistem Pendukung Keputusan, Siswa Berprestasi, *Simple Additive Weighting*, *Criteria Importance Through Inter-Criteria Correlation*.



ABSTRACT

The selection of outstanding students is an important process in recognizing students who demonstrate the best achievements. However, the evaluation process involving multiple criteria often requires considerable time and may lead to subjectivity. Therefore, this study aims to develop a Web-Based Decision Support System for Selecting Outstanding Students Using a Hybrid *Simple Additive Weighting* (SAW) and *Criteria Importance Through Inter-Criteria Correlation* (CRITIC) Method. The CRITIC method is employed to determine criterion weights objectively, while the SAW method is used to calculate preference values and generate student rankings. The criteria used in this study include report card grade averages, attendance records, extracurricular activities, and achievements. The results indicate that the system is capable of calculating criterion weights, ranking students, and providing objective recommendations for outstanding students. The system's ranking result were also compared with the historical data of student achievement selection previously used by the school using Spearman's Rank Correlation Coefficient resulting in an average correlation of 0,514 categorized as moderate. Based on the User Acceptance Testing (UAT) results, the system achieved a score of 95,69%, which falls into the excellent category. Therefore, the developed system can assist schools in determining outstanding students more effectively, efficiently, and objectively.

Keywords: Decision Support System, Outstanding Students, *Simple Additive Weighting*, *Criteria Importance Through Inter-Criteria Correlation*.

