

PENERAPAN KINERJA METODE SAW DAN TOPSIS DALAM SISTEM PENDUKUNG KEPUTUSAN PEMILIHAN ANGGOTA BERPRESTASI DI PUSAT INFORMASI DATA MARITIM TNI

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ABSTRAK

Dalam era informasi yang semakin berkembang, pemilihan anggota berprestasi di Pusat Informasi Data Maritim TNI (Pusinfomar TNI) menjadi suatu keputusan yang penting dan memerlukan pendekatan yang tepat. Oleh karena itu, dalam tugas akhir ini, dilakukan penelitian mengenai penerapan kinerja metode *Simple Additive Weighting* (SAW) dan *Technique for Order of Preference by Similarity to Ideal Solution* (TOPSIS) dalam sistem pendukung keputusan untuk pemilihan anggota berprestasi di Pusinfomar TNI. Tujuan dari penelitian ini adalah untuk mengembangkan suatu sistem pendukung keputusan yang efektif dan efisien dalam memilih anggota berprestasi berdasarkan kriteria yang telah ditentukan. Metode SAW digunakan untuk memberikan penilaian relatif terhadap kinerja anggota berdasarkan bobot kriteria yang telah ditetapkan. Sedangkan metode TOPSIS digunakan untuk mendapatkan urutan preferensi anggota berdasarkan jarak relative terhadap solusi ideal positif dan negatif. Penelitian ini menggunakan pendekatan kualitatif dengan tahapan penelitian yang meliputi *fase intelligence*, *fase design*, *fase choice*, *fase implementation*, pengujian sistem dan dokumentasi. Selain itu, dalam penelitian ini juga menggunakan Bahasa pemrograman HTML, CSS, PHP, serta *framework* Laravel dan basis data MySQL. Hasil penelitian ini diharapkan dapat memberikan kontribusi dalam pengembangan sistem pendukung keputusan untuk pemilihan anggota berprestasi di Pusinfomar TNI. Salin itu, penelitian ini juga diharapkan dapat memberikan pemahaman lebih baik tentang penerapan metode SAW dan TOPSIS dalam konteks pemilihan anggota berprestasi.

Kata Kunci : Pemilihan Anggota Berprestasi, Penerapan Kinerja, Pusat Informasi Dara Maritim TNI, Kriteria

**THE APPLICATION OF SAW AND TOPSIS METHOD PERFORMANCE IN A
DECISION SUPPORT SYSTEM FOR SELECTING OUTSTANDING MEMBERS AT
THE TNI MARITIME DATA INFORMATION CENTER**

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ABSTRACT

In the increasingly evolving information era, the selection of outstanding members at the Naval Data Information Center (Pusinfomar TNI) has become an important decision that requires the right approach. Therefore, in this final project, research was conducted on the implementation of the Simple Additive Weighting (SAW) and Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) methods in a decision support system for selecting outstanding members at Pusinfomar TNI. The aim of this research is to develop an effective and efficient decision support system for selecting outstanding members based on predetermined criteria. The SAW method is used to provide a relative assessment of member performance based on the weights of established criteria. Meanwhile, the TOPSIS method is used to obtain the order of member preferences based on the relative distance to the positive and negative ideal solutions. This research uses a qualitative approach with research stages that include the intelligence phase, design phase, choice phase, implementation phase, system testing, and documentation. Additionally, this research also uses HTML, CSS, PHP programming languages, as well as the Laravel framework and MySQL database. The results of this research are expected to contribute to the development of a decision support system for selecting outstanding members at Pusinfomar TNI. Furthermore, this research is also expected to provide a better understanding of the application of the SAW and TOPSIS methods in the context of selecting outstanding members.

Keywords: *Outstanding Member Selection, Performance Implementation, Naval Data Information Center, Criteria*