

ABSTRACT

HENDRIK ADITIA, BEST CADDY SELECTION DECISION SUPPORT SYSTEM USING THE TECHNIQUE FOR ORDER PREFERENCE SIMILARITY TO IDEAL SOLUTION (TOPSIS) METHOD AT THE WIRABRAJA GOLF COURSE

Decision support systems are an effective solution in assisting complex, criteria-based decision making. This study aims to design and build a decision support system to determine the best caddy at the Wirabraja Golf Course using the Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) method. This method was chosen because of its ability to assess and rank alternatives based on their proximity to the ideal solution. The study was conducted through several stages, namely data collection, system requirements analysis, system design using Unified Modeling Language (UML), and web-based system implementation. The results of this system are able to provide objective caddy rankings based on predetermined criteria, such as discipline, diligence, hospitality, and responsibility. This system is also equipped with automatic calculation features, informative dashboard displays, and evaluation result reports. The conclusion of this study shows that the application of the TOPSIS method in this decision support system is able to provide accurate, efficient evaluation results and facilitate course owners in making decisions systematically. With this system, it is hoped that the process of selecting the best caddy can be carried out more transparently, fairly, and measurably.

Keywords : TOPSIS, Decision Support System, Golf

ABSTRAK

HENDRIK ADITIA, SISTEM PENDUKUNG KEPUTUSAN PEMILIHAN CADDY TERBAIK MENGGUNAKAN METODE *TECHNIQUE FOR ORDER PREFERENCE SIMILARITY TO IDEAL SOLUTION* (TOPSIS) DI LAPANGAN GOLF WIRABRAJA

Sistem pendukung keputusan menjadi solusi efektif dalam membantu pengambilan keputusan yang kompleks dan berbasis kriteria. Penelitian ini bertujuan untuk merancang dan membangun sistem pendukung keputusan untuk menentukan caddy terbaik di Lapangan Golf Wirabraja menggunakan metode *Technique for Order Preference by Similarity to Ideal Solution* (TOPSIS). Metode ini dipilih karena kemampuannya dalam menilai dan memeringkat alternatif berdasarkan kedekatannya dengan solusi ideal. Penelitian dilakukan melalui beberapa tahapan, yaitu pengumpulan data, analisis kebutuhan sistem, perancangan sistem menggunakan Unified Modeling Language (UML), serta implementasi sistem berbasis web. Hasil dari sistem ini mampu memberikan peringkat caddy secara objektif berdasarkan kriteria yang telah ditentukan, seperti disiplin, kerajinan, keramah tamahan, dan tanggung jawab. Sistem ini juga dilengkapi dengan fitur perhitungan otomatis, tampilan *dashboard* informatif, dan laporan hasil evaluasi. Kesimpulan dari penelitian ini menunjukkan bahwa penerapan metode TOPSIS pada sistem pendukung keputusan ini mampu memberikan hasil evaluasi yang akurat, efisien, dan memudahkan pemilik lapangan dalam mengambil keputusan secara sistematis. Dengan adanya sistem ini, diharapkan proses pemilihan caddy terbaik dapat dilakukan secara lebih transparan, adil, dan terukur.

Kata Kunci: TOPSIS, Sistem Pendukung Keputusan , Golf.