

ABSTRACT

SOFT COMPUTING FOR A RECOMMENDATION SYSTEM FOR MATTRESS SELECTION BASED ON USER'S BODY NEEDS

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Choosing a mattress is crucial in maintaining a person's health and sleep quality because it has a direct impact on daily life. Even though the market offers various types of mattresses, users often feel confused about choosing a product that suits their body's needs. Therefore, this research has a dual aim. First, to create a system that provides education to the public regarding mattress specifications based on body needs. Second, to develop a soft computing recommendation system that can help users choose the best mattress according to their body needs. In developing soft computing, researchers apply a prototype model from the Systems Development Life Cycle (SDLC) and use the Analytical Hierarchy Process (AHP) method in calculating recommendations. The AHP method was chosen because it was considered suitable for a recommendation system because it assigns weights to each alternative and criteria that have input consistency checking calculations to ensure the resulting weightings have integrity and are reliable. In this research, the criteria taken were the level of hardness, foam material, and type of springs in the mattress which are related to the body's needs. With this approach, soft computing will provide recommendations and can provide informative guidance for users in choosing a mattress according to body needs.

Keywords: *Decision Support System, Mattress Selection, Analytical Hierarchy Process.*

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