

Weighing of Learning Factors Using Fuzzy Analytical Hierarchy Process

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ABSTRACT There are some factors that affect learning to a greater or lesser extent while performing learning activities. Research results reveal that many factors affect learning. This study aims to weight the factors, which affect learning. Factors, which affect the learning of primary school students were identified, and experienced elementary school teachers benefited from determining the importance of these factors. A fuzzy analytical hierarchy process associated with a multi-criteria decision-making technique was applied to determine the weight of each factor. The fuzzy logic was used to develop realistic results in terms of the analytical hierarchy process, a method based on a pairwise comparison of the factors. The consistency ratio was also examined to understand whether or not the binary consistency rate and pairwise comparisons are consistent. Thus, it is determined which factors are most important in affecting a child's learning. It also constitutes an input for determining which learning activities are most effective.