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Rational Decision for Selection of Quality Tools and Techniques using Cosine Similarity

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ABSTRACT

In any event, decision is always something that need to be done. Some say choose the decision that give the least regret because no matter how good the decision was, there will always risk that need to consider. Given that decision making is a daily process everywhere, making one become so difficult especially in area that involve quality matter. Quality is paramount in any industries because at the end any product or service will go back to its provider, now a customer. To maintain the quality, each organization in industries need to come out with continuous improvement activties, organization need some sort of guideline so that they do not have to start from scratch as well as having successful way to follow. Guideline in this context can be refer to Quality Tools and Techniques (QTT). However, there are so many QTT available that make quality personnel having difficulty to make decision in choosing which one is fit. Here, rational selection come in handy and utilizing one of the Artificial Intelligent algorithm, Cosine Similarity, this paper intends to uncover the feasibility of Cosine Similarity in choosing the best QTT.

Keywords: *Quality Tools and Techniques; Cosine Similarity; Rational Decision*