

A simplified measurement scheme for software quality

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Abstract

An approach of software quality evaluation model and its computing algorithm is proposed in this paper. The software support can reduce barriers of application of MCDM procedures. In this study, we proposal the software quality measurement. The relevant criteria of this model are derived from the international norm ISO 9126-1. AHP is a measurement theory that prioritizes the hierarchy and consistency of judgemental data provided by a group of decision makers. AHP incorporates the evaluations of all decision makers into a final decision, without having to elicit their utility functions on subjective and objective criteria, by pair-wise comparisons of the alternatives. The *Analytic Hierarchy Process* (AHP)-based decision-making method can provide decision makers or purchasers a valuable reference for evaluating software quality. Importantly, the proposed model can assist the user and developer to assess the software quality, making it highly applicable for academia and commercial purposes.

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