Abstract

Now-a-days software manufacturing companies usually try to capture market share with rapid software development. Actually the development of high quality software products can decrease cost by reducing rework and increasing productivity. For that, reason selection of software projects is an important task. Several factors come into consideration while selection of proper project for a specified job. To deal with this typical situation the current researchers combined the much known AHP (Analytic Hierarchy Process) with QFD (Quality Function Deployment). Here the AHP method redefined under fuzziness. Then QFD process is applied to identifying and ranking customer’s need and translating them into product / service specification. At the last sensitivity analysis has been done to make the process more robust from the characterization of integration of the fuzzy AHP & QFD.

References

- C. L. Hwang & K. P. Yoon, "Multiple Attribute Decision Making and


Maskeliuneite, L; Sivilevicius, H; Podvezko, V., "Research on the quality of passenger transportation by railway", Transport 24 (2), (2009), 100-112.


Zavadskas, E. K., Kaklauskas, A., Turskis, Z., Tamosaitiene, J., "Selection of the effective dwelling house walls by applying attributes values determined at intervals.


A Novel Integrated AHP-QFD Model for Software Project Selection under Fuzziness

A Novel Integrated AHP-QFD Model for Software Project Selection under Fuzziness

A Novel Integrated AHP-QFD Model for Software Project Selection under Fuzziness


Index Terms

Computer Science
Fuzzy Systems

Keywords

Quality Function Deployment; AHP; Fuzziness; Project selection