Abstract

Prioritization decisions in general aim at conducting assessment of several alternatives that are characterized by multiple conflicting attributes, which are intertwined by the competing preferences of multiple assessors. These assessments personifying various forms of ambiguity such as uncertainty, ignorance, vagueness and fuzziness have to be aggregated to generate reliable collective priorities. The objective of this paper is to introduce 4A prioritization
frameworks with alternatives at the centre surrounded by the four facets: Attributes, Assessors, Ambiguity and Aggregation. Elements constituting the framework are discussed in a general context and then related to software requirements. The frameworks introduced have confronted a wide scope of further research.

References

- MacCrimmon K R. An Overview of Multiple Objective Decision Making. Published In Multiple Criteria Decision Making (pp. 18-43), Columbia, SC: University of South Carolina Press, 1973
- Biren Das. Examination Reforms: Marking vs. Grading. Published in University News,
4A Frameworks for Prioritization Requirements

45(13), March 26-April 01, 2007.
- www. ugc. ac. in/new_initiatives/academic. pdf.
- Glinz, Martin. Stakeholders in Requirements Engineering IEEE Software. 28(1). Pp 18-20 ISSN 0740-7459.
- Freeman, R. Edward et al. Stockholders and Stakeholders: A New Perspective on Corporate Governance. California 106.
- http://www. sei. cmu. edu/cmmi/start/faq/models-faq. cfm
- Björn Regnell, Barbara Paech et al. Requirements mean decisions! –Research issues
for understanding and supporting decision making in requirements engineering&quot; Proc. 1st Swedish Conference on Software Engineering Research and Practice (SERP’01).

Index Terms

Computer Science Software Engineering

Keywords

Requirements Prioritization Prioritization Attributes Assessors Ambiguity And Aggregation.