EXPERT-BASED DECISION SUPPORT FRAMEWORK FOR SOFTWARE REENGINEERING

Rahma A. Kamaludeen\textsuperscript{a1}, Shahida Sulaiman\textsuperscript{a,b2}, Yu-N Cheah\textsuperscript{a3}

\textsuperscript{a}School of Computer Sciences
Universiti Sains Malaysia
11800 USM, Penang, Malaysia

\textsuperscript{b}Faculty of Computer Science and Information System
Universiti Teknologi Malaysia
81310 Skudai, Johor, Malaysia

E-mail:  \textsuperscript{1}rahmak@tm.com.my,  \textsuperscript{2}shahida@cs.usm.my,  \textsuperscript{3}yncheah@cs.usm.my

Abstract

Software is common in many applications today. As these software age, they have to be maintained to suit the demands of the users. There are many challenges involved in maintaining this software which decision makers in the software reengineering community have to address. These decision makers need an expert's assistance in reengineering the software. Many studies attempt to support decision makers. However, there is limited study in adopting artificial intelligence approaches to support the decision-making process. Hence, we introduce an expert-based decision support framework called REXDES that can analyze different components of a software application to facilitate decision-making in software reengineering.

Keywords: Software reengineering, Decision support, Expert system, Decision makers