Intelligent Risk Prediction Method for Risk Management Planning

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Abstract

The assessments of the risks are demonstrated through the Total Risk Index. Software risks can be defined as uncertainty and loss in project process. Software risk management consists of risk identification, estimation, refinement, mitigation, monitoring and maintenance steps. In this paper, the main focus is on different risk management model and the importance of automated tools in risk management. With the automated risk management tool, the prediction of project problem effects that can cause loss in software project in terms of their values on risk factors and rank the risk factors to observe how they can give detail about project problem effects separately. For these purpose five classification methods for prediction of problem impact and two filter feature selection methods for ranking importance of risk factors are used in this study.

Keywords
Risk management, risk planning, automatic screening, image processing, chaos system

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Biography

Suwilai Phumpho is currently a lecturer in the faculty of Technology and Innovation at the Bangkok Thonburi University (BTU). He graduated summa cum laude with a bachelor’s degree in Electronic Engineering from Mahanakorn University of Technology (MUT). In 2008, Mr. Phumpho earned a master’s degree in Information Engineering from King Mongkut's Institute of Technology Ladkrabang (KMITL). In addition, he was given a valuable opportunity as a research student to work with and learn from researchers of high caliber at the AOLAB of the Department of Mechanical Engineering and Intelligent Systems, the University of Electro-Communications, Japan, from October to December 2012. With an RGJ grant from the Thailand Research Fund, the author furthered and, in 2014, completed his doctoral degree in Electrical Engineering from the Faculty of Engineering, KMITL. His research interests center around chaotic applications, information security management system, and the internet of things.