

The MITRE Corporation

License Opportunities



MITRE technology transfer office

MITRE's Technology Transfer program was established in 1999 to place MITRE-developed technologies in the hands of commercial companies that can make them available to our sponsors and the public as supported, affordable products. Working on critical issues of national importance, MITRE continues to develop new and innovative technologies.

Software Quality Assessment Exercise (SQAE)

As software undergoes maintenance and enhancement, it becomes brittle, complex, and susceptible to errors. Software quality teams can no longer afford to focus simply on removing errors; the fundamental software architectural issues of evolvability, portability, and maintainability are key to an organization's capacity to survive and thrive.

MITRE has developed a Software Quality Assessment Exercise (SQAE) methodology and framework geared specifically to providing insights about software quality from a comprehensive, life cycle engineering perspective. The SQAE methodology is designed to be tailored to the specific context and needs of an organization, while maintaining a comprehensive perspective on the risk areas in software-based systems.

The SQAE capitalizes on industry and government open-system standards, MITRE's past work and experience in conducting over 100 assessments in this area, and modern software reverse-engineering analysis tools and code assessment technologies. The SQAE has been applied to more than 64 languages and over 50 million lines of code.

Applications

Software systems engineering, Software development

Benefits

Quicker response time for risk notification

Use in more than 60 languages

Tailored to specific business needs

Additional Information and Links

R. A. Martin and L. H. Shafer, *"Providing a Framework for Effective Software Quality Assessment: A First Step in Automating Assessments,"* The First Annual Software Engineering & Economics Conference, MITRE, McLean, Virginia, April 2-3, 1996.

R. A. Martin and L. H. Shafer, *"Providing a Framework for Effective Software Quality Assessment: Making A Science Of Risk Assessment,"* The 6th Annual International Symposium of INCOSE "Systems Engineering: Practices and Tools," Boston, Massachusetts, July 9-11, 1996.

R. A. Martin and M. T. Drozd, *"Using Product Quality Assessment to Broaden the Evaluation of Software Engineering Capability,"* The 1996 Software Engineering Process Group (SEPG) Conference "Broadening the Perspective for the Next Century," New Jersey, May 20-23, 1996.

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