Software Quality Metrics and Measurement

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Message from the Guest Editors

Dear Colleagues,

The software industry is steadily moving towards the adoption of the software-as-a-service model. A factor that is gaining increasing attention is the quality of the software, not solely measured in terms of availability, functionality or security but in numerous other facets such as user experience, suitability, appropriateness and completeness, among others. Designing quality software in critical domains such as e-business is one battle that needs to be won in this war. Tools such as formal standards are key weapons in the formalization of quality evaluation and metrics are spearheading their practical application.

Metrics (and the appropriate measurement methods) reflect the quality of both the services and data of a software system. They can be measured at different stages of the software lifecycle and from different aspects. Assigning values to metrics and interpreting the results is a critical point for moving the software to the next stage of the lifecycle or for getting feedback that will guide corrections, upgrades or maintenance.

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