



# Quality Assurance of Agent-Based and Self-Managed Systems

*Reiner Dumke, Steffen Mencke, Cornelius Wille*

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The challenges in implementing intelligent and autonomous software systems remain the development of self-adapting systems, self-healing applications, corporate global creation, and collaborated robotic teams. With software agent technology widely recognized as a key approach in implementing such global infrastructure, the importance of the role of quality assurance of agent-based systems and system development is growing daily.

Based on the authors' more than fifteen years of experience in software agent technology, **Quality of Agent-Based and Self-Managed Systems** presents the basic principles and structures of agent technology. It covers the main quality issues of software system development and provides examples of agent measurement and evaluation. The authors focus on software agent systems and multi-agent systems (MAS) and discuss the determination of quality properties. They also explain different techniques and approaches to evaluate the development of MAS. The final chapter summarizes quality assurance approaches for agent-based systems and discusses some open problems and future directions.

Although often complex and difficult to manage, the applications for software agent systems in essential life systems increase every day. Since the quality of the agent-based self-managing systems is a central point of software risks, analyzing, evaluating, and improving the quality measurement situation will always be a concern when developing these systems. With more than sixty illustrations and twenty tables, this book builds a foundation in quality and quality control for agent-based technology.



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