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(57) Abstract :

The present invention discloses a computer-aided framework (100) for detecting software performance issues through multi-layer monitoring and intelligent analysis. The framework integrates application monitoring (110), system monitoring (120), and network monitoring (130) to capture performance data. An anomaly detection engine (140) applies hybrid techniques to identify bottlenecks, while a correlation unit (145) links anomalies to root causes. A visualization dashboard (150) provides actionable insights. The invention enhances real-time performance detection, scalability, and developer productivity across diverse environments.

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