Expert-Guided Automatic Diagnosis of Performance Problems in Enterprise Applications

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### Characteristics
- Adaptive configuration
- Continuous learning
- APM process automation
- Formalized expert knowledge

### Early Prototype

![Diagram of a tool for diagnosing performance problems]

### Goals
- Reduce maintenance effort by 50%
- Detect 100% of the problems automatically
- Identify 80% of the root causes automatically
- No APM vendor lock-in

### Project Consortium

- NOVATEC
- INSPeCtIT
- ivv
- Universität Stuttgart
- Kieker

### Industrial Case Studies
- CS1: Insurance management application
- CS2: SEPA payment factory

### Future Steps
- Anti-pattern detection
- Overhead-aware instrumentation
- Incorporation of system measures

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Take a Break,
Let diagnoseIT Do the Work

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...annoyed customers...
...countless execution traces...
...overwhelmed performance engineers...

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[diagnoseit.github.io]

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...accurate problem diagnosis and root cause localization...
...extensible expert knowledge on performance anti-patterns...
...relaxed performance engineers...

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...slowest method...
...n-lane bridge...
...some other anti-pattern...
...anti-pattern n+1...