Non-Functional Properties in Service Oriented Architecture: Requirements, Models and Methods

Nikola Milanovic (Model Labs - Berlin, Germany)

Service Oriented Architecture (SOA) is the paradigm for software and system specification, design, implementation and management that intends to shape and dominate IT and business landscapes in the near future.

Non-Functional Properties in Service Oriented Architecture: Requirements, Models and Methods offers a selection of chapters that cover three important aspects related to the use of non-functional properties in SOA: requirements specification with respect to non-functional properties, modeling non-functional properties and implementation of non-functional properties. This book serves as both a practical reference and an advanced scientific source for those interested in current issues, new trends, and yet-unresolved areas of the discipline.

Topics Covered:
- Control engineering for scaling service oriented architectures
- Developing non-functional requirements for a service-oriented application platform
- Domain engineering in software product lines
- Dynamic and distributed software architectures
- Goal-oriented representation of service-oriented software design principles
- Implementation of non-functional requirements
- Model-driven approach for end-to-end SOA security configurations
- Model-driven development of non-functional properties in Web services
- Modeling and analyzing non-functional requirements in service oriented architecture
- Relational service quality modeling


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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Nikola Milanovic is co-founder and CEO of Model Labs. The Berlin-based company offers innovative model-based software product family for system integration and service availability assessment. Previously, he was senior researcher at Berlin University of Technology (TU Berlin) and Hasso-Plattner Institute (HPI) in Potsdam. Milanovic received his PhD in computer science from the Humboldt University in Berlin.

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