Engineering Reliable Service Oriented Architecture: Managing Complexity and Service Level Agreements

Nikola Milanovic (Model Labs - Berlin, Germany)

Dynamic, trustworthy and reliable service delivery in Service Oriented Architectures (SOA) is one of the main pre-conditions for successful and sustainable business operations. Service and business process reliability is, therefore, of paramount importance and cannot be compromised.

Engineering Reliable Service Oriented Architecture: Managing Complexity and Service Level Agreements presents a guide to engineering reliable SOA systems and enhances current understanding of service reliability. It is an essential reference for both practitioners and researchers wishing to explore state-of-the-art results from the field of reliable SOA application engineering.

Topics Covered:
- Adding semantics to QoS requirements
- Aggregating functional and non-functional properties to identify service compositions
- Adapting hierarchical Web service compositions
- Applying concept reuse for adaptive service composition
- Methodology and framework for assessing service and business process availability
- Non-functional properties in embedded operating systems
- Quality aspects in service oriented architecture through service level agreements
- Quality of service monitoring, diagnosis, and adaptation
- Specification of non-functional requirements
- Supporting service level agreement with service discovery

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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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