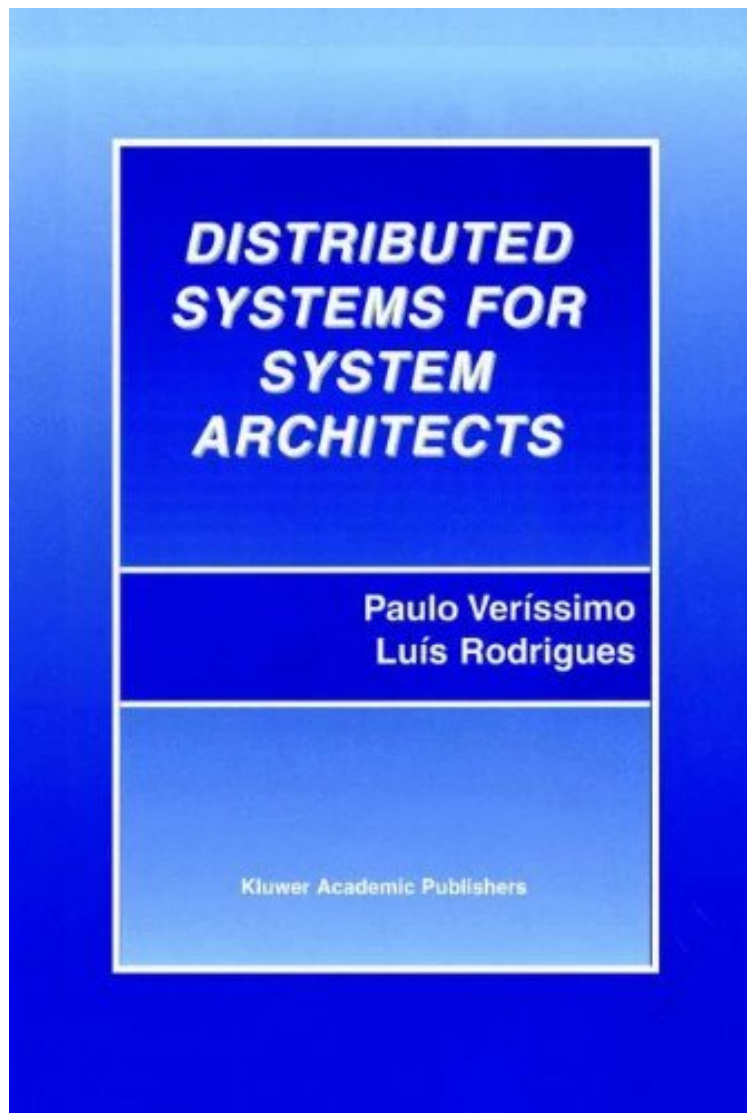


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Distributed Systems for System Architects (Advances in Distributed Computing and Middleware)

Von Paulo Verssimo, Lus Rodrigues
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verständliches Buch auch für englischschwache Menschen
Von Ein Kunde
Das Buch vermittelt mit Hilfe von sehr anschaulichen Grafiken, den gesamten Komplex der Echtzeit Problematik. Von Ticks und Jitter bis Delay und Steadiness
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Kurzbeschreibung
The primary audience for this book are advanced undergraduate students and graduate students. Computer architecture, as it happened in other fields such as electronics, evolved from the small to the large, that is, it left the realm of low-level hardware constructs, and gained new dimensions, as distributed systems became the keyword for system implementation. As such, the system architect, today, assembles pieces of hardware that are at least as large as a computer or a network router or a LAN hub, and assigns pieces of software that are self-contained, such as client or server programs, Java applets or protocol modules, to those hardware components. The freedom she/he now has, is tremendously challenging. The problems alas, have increased too. What was before mastered and tested carefully before a fully-fledged mainframe or a closely-coupled computer cluster came out on the market, is today left to the responsibility of computer engineers and scientists invested in the role of system architects, who fulfil this role on behalf of software vendors and integrators, add-value system developers, R&D institutes, and final users. As system complexity, size and diversity grow, so increases the probability of inconsistency, unreliability, non-responsiveness and insecurity, not to mention the management overhead. What System Architects Need to Know
The insight such an architect must have includes but goes well beyond, the functional properties of distributed systems.

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Synopsis
The distributed systems architect assembles pieces of hardware that are at least as large as a computer or a network router, and assigns pieces of software that are self-contained - such as Java applets - to those hardware components. As system complexity, size and diversity grow, the probability of inconsistency, unreliability, non-responsiveness and insecurity, increases. It is absolutely necessary for distributed systems architects to understand the management of such complex systems. "Distributed Systems for System Architects" addresses these issues.