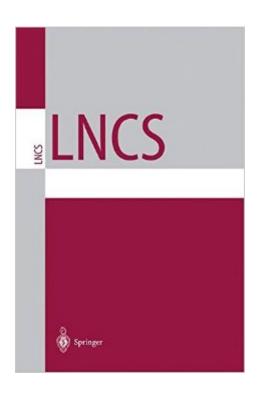
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# Performance Evaluation Of Complex Systems: Techniques And Tools: Performance 2002. Tutorial Lectures (Lecture Notes In Computer Science)





### **Synopsis**

Thefastevolution and the increased pervasiveness of computers and comnicationnetworkshaveledtothedevelopmentofalargevarietyofcomplex applications and services which have become an integral part of our daily lives. Modernsocietywidelyreliesoninformationtechnologies. Hence, the Quality ofService, that is, thee? ciency, availability, reliability, and security of these technologies, is an essential requirement for the proper functioning of modern society. Inthisscenario, performance evaluation plays a central role. Performance evaluationhastoassessandpredicttheperformanceofhardwareandsoftware systems, and to identify and prevent their current and future performance bo-lenecks. Inthepastthirtyyears, manyperformance evaluation techniques and tools have been developed and successfully applied in studies dealing with the c-?gurationandcapacityplanningofexistingsystemsandwiththedesignand developmentofnewsystems. Recently, performance evaluation techniques have evolvedtocopewiththeincreasedcomplexityofthecurrentsystemsandtheir workloads. Manyoftheclassicaltechniqueshavebeenrevisitedinlightofthe recenttechnologicaladvances, and novel techniques, methods, and tools have been developed. Thisbookisorganizedaroundasetofsurveypaperswhichprovideacprehensiveoverviewofthetheories, techniques, and tools for performance and reliabilityevaluationofcurrentandnewemergingtechnologies. Thepapers, by leadinginternational experts in the ?eldofperformance evaluation, are based on thetutorialspresentedattheIFIPWG7. 3InternationalSymposiumonComterModeling,Measurement,andEvaluation(Performance2002)heldinRome onSeptember23-27,2002. Thepapersaddressthestateoftheartofthetheoreticalandmethodological advancesintheareaofperformanceandreliabilityevaluationaswellasnew perspectives in the major application domains. Abroad spectrum of topics is covered in this book. Modelingandveri?cationformalisms,solutionmethods, workloadcharacterization, and benchmarking aread dressed from a metho-logical point of view. Applicationsofperformanceandreliabilitytechniquesto various domains, such as, hardware and software architectures, wired andrelessnetworks, Gridenvironments, Webservices, real-timevoice and video applications, are also examined. This book is intended to serve as a reference for students, scientists, and

gineersworkingintheareasofperformanceandreliabilityevaluation, hardware

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