

Performance Guarantees in Communication Networks (Telecommunication Networks and Computer Systems)

DESCRIPTION

COPY LINK: <https://pdf.bookcenterapp.com/slide/1852332263> Providing performance guarantees is one of the most important issues for future telecommunication networks. This book describes theoretical developments in performance guarantees for telecommunication networks from the last decade. Written for the benefit of graduate students and scientists interested in telecommunications-network performance this book consists of two parts. The first introduces the recently-developed filtering theory for providing deterministic (hard) guarantees, such as bounded delay and queue length. The filtering theory is developed under the min-plus algebra, where one replaces the usual addition with the min operator and the usual multiplication with the addition operator. As in the classical linear system theory, the filtering theory treats an arrival process (or a departure process) as a signal and a network element as a system. Network elements, including traffic regulators and servers, can be modelled as linear filters under the min-plus algebra, and they can be joined by concatenation, "filter bank summation" and feedback to form a composite network element. The problem of providing deterministic guarantees is equivalent to finding the impulse response of composite network elements. This section contains material on:- (s, r)-calculus- Filtering theory for deterministic traffic regulation, service guarantees and networks with variable-length packets - Traffic specification- Networks with multiple inputs and outputs- Constrained traffic regulation The second part of the book addresses stochastic (soft) guarantees, focusing mainly on tail distributions of queue lengths and packet loss probabilities and contains material on:- (s(q), r(q))-calculus and q-envelope rates- The large deviation principle- The theory of effective bandwidthThe mathematical theory for stochastic guarantees is the theory of effective bandwidth. Based on the large deviation principle, the theory of effective bandwidth provides approximations for the bandwidths required to meet stochastic guarantees for both short-range dependent inputs and long-range dependent inputs.

Performance Guarantees In Communication Networks

G Thomas



Performance Guarantees In Communication Networks:

Whispering the Secrets of Language: An Psychological Journey through **Performance Guarantees In Communication Networks**

In a digitally-driven world wherever monitors reign great and immediate interaction drowns out the subtleties of language, the profound strategies and psychological subtleties concealed within words usually get unheard. Yet, nestled within the pages of **Performance Guarantees In Communication Networks** a captivating literary treasure pulsing with raw emotions, lies a fantastic journey waiting to be undertaken. Written by an experienced wordsmith, that charming opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the cloth of every word. Within the emotional depths of this emotional evaluation, we shall embark upon a honest exploration of the book is key styles, dissect its fascinating writing design, and fail to the effective resonance it evokes heavy within the recesses of readers hearts.

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