



Scalable Performance Signalling and Congestion Avoidance

By Welzl, Michael

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book answers a question which came about while the author was working on his diploma thesis [1]: would it be better to ask for the available bandwidth instead of probing the network (like TCP does)? The diploma thesis was concerned with long-distance musical interaction ("NetMusic"). This is a very peculiar application: only a small amount of bandwidth may be necessary, but timely delivery and reduced loss are very important. Back then, these requirements led to a thorough investigation of existing telecommunication network mechanisms, but a satisfactory answer to the question could not be found. Simply put, the answer is "yes" - this work describes a mechanism which indeed enables an application to "ask for the available bandwidth". This obviously does not only concern online musical collaboration any longer. Among others, the mechanism yields the following advantages over existing alternatives: - good throughput while maintaining close to zero loss and a small bottleneck queue length - usefulness for streaming media applications due to a very smooth rate - feasibility for satellite and wireless links - high scalability Additionally, a reusable framework for future applications that need to "ask...



READ ONLINE
[6.16 MB]

Reviews

It is really an incredible publication that we have possibly study. Of course, it really is engage in, continue to an interesting and amazing literature. You are going to like how the writer compose this publication.

-- **Bailey Lehner**

A must buy book if you need to adding benefit. I actually have read through and so i am certain that i will likely to read through once again once again down the road. I am just quickly could possibly get a delight of looking at a created ebook.

-- **Jayme Beier**