Internet Congestion Control

By Subir Varma

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Internet Congestion Control provides a description of some of the most important topics in the area of congestion control in computer networks, with special emphasis on the analytical modeling of congestion control algorithms.

The field of congestion control has seen many notable advances in recent years and the purpose of this book, which is targeted towards the advanced and intermediate reader, is to inform about the most important developments in this area. The book should enable the reader to gain a good understanding of the application of congestion control theory to a number of application domains such as Data Center Networks, Video Streaming, High Speed Links and Broadband Wireless Networks. When seen through the lens of analytical modeling, there are a number of common threads that run through the design and analysis of congestion control protocols in all these different areas, which are emphasized in this book. The book also cuts a path through the profusion of algorithms in the literature, and puts the topic on a systematic and logical footing.

Internet Congestion Control provides practicing network engineers and researchers with a comprehensive and accessible coverage of analytical models of congestion control algorithms, and gives readers everything needed to understand the latest developments and research in this area.

- Examines and synthesizes the most important developments in internet congestion control from the last 20 years.
- Provides detailed description on the congestion control protocols used in four key areas; broadband wireless networks, high speed networks with large latencies, video transmission networks, and data center networks.
- Offers accessible coverage of advanced topics such as Optimization and Control Theory as applied to congestion control systems.

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Editorial Review

Review

"…algorithms are presented in detail and insights on their operation are discussed in a clear manner, making the book very useful to people that are interested in the algorithmic aspects and are willing to skip the technical analysis. As such, the book is useful to advances undergraduate and graduate students, as well as to practicing engineers and scientists, and to researchers." - Leonidas Georgiadis, Aristotle University of Thessaloniki

"I think this book distinguishes itself very well in the way it first approaches and then dives into the topic of congestion control.... There is a whole range of algorithms and traffic domains and trying to make sense of so many areas in a coherent manner is a daunting task. The book approaches this challenge in a top down fashion which works out very well in the end....All the content is there that is needed to make anyone interested a reasonable expert in the area." -Ashish Gupta, Senior Software Engineer, Google Inc.

About the Author

Subir has over twenty years of experience in the technology industry, during which he has held leadership positions for large companies such as IBM and Sprint, as well several Silicon Valley based start-ups. At IBM he was part of the design team for IBM's next generation broadband architecture and his contribution to improving the performance of IBM's host based protocol stack led to an IBM Outstanding Innovation Award. He served as Director of Systems Architecture at Cable Modem pioneer Hybrid Networks where his design for the Medium Access Control protocol enabled the company to establish an early lead in the MMDS metro area wireless space. While at Hybrid, he also took part in the drafting of the DOCSIS Cable Model specification. He was the co-founder and CTO/VP of Engineering at Aperto Networks, a pioneer in the Broadband Wireless space, where he was the Chief Designer of its Packetwave line of products. His work at Aperto led to the creation of the industry's leading wireless access system, that was 5+ years ahead of the rest of the competition. Subsequently through his chairing of the IEEE 802.16 MAC standards group, this design had a big influence on the WiMAX specification, which in turn influenced the design of LTE, which is the leading cellular wireless protocol in use today. Most recently Subir was part of the Office of the CTO at Tellabs where he led the company's architectural efforts in the area of broadband wireless gateways. Among the projects that he contributed to, included a design for an LTE-WiFi Gateway and a Software Define Networking based architecture for the LTE packet core.

Subir holds 45 patents which along with his other publications, have been cited over 800 times. His most cited works are in the areas of Congestion Control, Packet Scheduling/BW Management, Mobility and Medium Access Control. His graduate work on Fork-Join and Re-sequencing queueing systems has found recent applications in the areas of RAID systems, vertical search engines and parallel databases. Subir holds a Ph.D. in Electrical Engineering from the University of Maryland, College Park and a B.Tech. in Electrical Engineering from IIT Kanpur, India.

Users Review

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Linda Pillar:

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