

# SELF-SIMILAR NETWORK TRAFFIC AND PERFORMANCE EVALUATION



EDITED BY

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# Self Similar Network Traffic And Performance Evaluation

**William H. Tranter, Desmond P.  
Taylor, Rodger E. Ziemer, Nicholas F.  
Maxemchuk, Jon W. Mark, IEEE  
Communications Society**

## **Self Similar Network Traffic And Performance Evaluation:**

**Self-Similar Network Traffic and Performance Evaluation** Kihong Park, Walter Willinger, 2000-09-04 A collection of work from top researchers in the field this book covers all aspects of self similar network traffic Readers will gain a better understanding of these networks through a broad introduction to the topic as well as suggestions for future research

Next Generation Teletraffic and Wired/Wireless Advanced Networking Jarmo Harju, 2006-05-15 This book constitutes the refereed proceedings of the 6th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networking NEW2AN 2006 held in St Petersburg Russia in May June 2006 The 49 revised full papers presented together with 2 keynote talks were carefully reviewed and selected from a total of 137 submissions The papers are organized in topical sections on teletraffic traffic characterization and modeling 3G UMTS sensor networks WLAN QoS MANETs lower layer techniques PAN technologies and TCP

**Self-Similar Processes in Telecommunications** Oleg Sheluhin, Sergey Smolskiy, Andrew Osin, 2007-03-13 For the first time the problems of voice services self similarity are discussed systematically and in detail with specific examples and illustrations Self Similar Processes in Telecommunications considers the self similar fractal and multifractal models of telecommunication traffic and efficiency based on the assumption that its traffic has fractal or multifractal properties is self similar The theoretical aspects of the most well known traffic models demonstrating self similar properties are discussed in detail and the comparative analysis of the different models efficiency for self similar traffic is presented This book demonstrates how to use self similar processes for designing new telecommunications systems and optimizing existing networks so as to achieve maximum efficiency and serviceability The approach is rooted in theory describing the algorithms the logical arithmetical or computational procedures that define how a task is performed for modeling these self similar processes However the language and ideas are essentially accessible for those who have a general knowledge of the subject area and the advice is highly practical all models problems and solutions are illustrated throughout using numerous real world examples Adopts a detailed theoretical yet broad based and practical mathematical approach for designing and operating numerous types of telecommunications systems and networks so as to achieve maximum efficiency Places the subject in context describing the current algorithms that make up the fractal or self similar processes while pointing to the future development of the technology Offers a comparative analysis of the different types of self similar process usage within the context of local area networks wide area networks and in the modeling of video traffic and mobile communications networks Describes how mathematical models are used as a basis for building numerous types of network including voice audio data video multimedia services and IP Internet Protocol telephony The book will appeal to the wide range of specialists dealing with the design and exploitation of telecommunication systems It will be useful for the post graduate students lecturers and researchers connected with communication networks disciplines

**Estimating Long-range Dependent Self-similar Network Traffic** Mohammed Rezaul Karim, 2007 **Performance**

**Evaluation for Network Services, Systems and Protocols** Stênio Fernandes, 2017-03-21 This book provides a comprehensive view of the methods and approaches for performance evaluation of computer networks. It offers a clear and logical introduction to the topic covering both fundamental concepts and practical aspects. It enables the reader to answer a series of questions regarding performance evaluation in modern computer networking scenarios such as: What, where, and when to measure? Which time scale is more appropriate for a particular measurement and analysis? Experimentation, simulation, or emulation? Why and how do I best design a sound performance evaluation plan? The book includes concrete examples and applications in the important aspects of experimentation, simulation, and emulation, and analytical modeling, with strong support from the scientific literature. It enables the identification of common shortcomings and highlights where students, researchers, and engineers should focus to conduct sound performance evaluation. This book is a useful guide to advanced undergraduates and graduate students, network engineers, and researchers who plan and design proper performance evaluation of computer networks and services. Previous knowledge of computer networks, concepts, mechanisms, and protocols is assumed. Although the book provides a quick review on applied statistics in computer networking, familiarity with basic statistics is an asset. It is suitable for advanced courses on computer networking as well as for more specific courses as a secondary textbook.

*Next Generation Teletraffic and Wired/Wireless Advanced Networking* Yevgeni Koucheryavy, Jarmo Harju, Villy B. Iversen, 2006-09-21 This book constitutes the refereed proceedings of the 6th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking NEW2AN 2006 held in St. Petersburg, Russia, in May/June 2006. The book includes 49 revised full papers presented together with 2 keynote talks. The papers are organized in topical sections on teletraffic, traffic characterization, and modeling; 3G UMTS; sensor networks; WLAN; QoS; MANETs; lower layer techniques; PAN technologies; and TCP.

**Performance Modelling and Analysis of Heterogeneous Networks** Demetres D. Kouvatsos, 2022-09-01 Over the recent years, a considerable amount of effort has been devoted both in industry and academia towards the performance modelling, evaluation, and prediction of convergent multi-service heterogeneous networks such as wireless and optical networks towards the design and dimensioning of the next and future generation Internets. This book follows *Heterogeneous Networks: Traffic Engineering, Performance Evaluation, Studies, and Tools* and presents recent advances in networks of diverse technology, reflecting the state of the art technology and research achievements in performance modelling, analysis, and applications worldwide. Technical topics discussed in the book include: Multiservice Switching Networks, Multiservice Switching Networks, Wireless Ad Hoc Networks, Wireless Sensor Networks, Wireless Cellular Networks, Optical Networks, Heterogeneous Networks. *Performance Modelling and Analysis* contains recently extended research papers which have their roots in the series of the HET-NETs International Working Conferences focusing on the Performance Modelling and Evaluation of Heterogeneous Networks under the auspices of the EU Networks of Excellence Euro-NGI and Euro-FGI. *Heterogeneous Networks: Performance Modelling and Analysis* is ideal for personnel in

computer communication industries as well as academic staff and master research students in computer science operational research electrical engineering and telecommunication systems and the Internet Keywords Heterogeneous networks performance modelling and analysis wired networks wireless networks ad hoc sensor and cellular optical networks next and future generation Internets

*Modeling and Simulation Tools for Emerging Telecommunication Networks* Nejat Ince, Ercan Topuz, 2006-09-10 Modeling and Simulation Tools for Emerging Telecommunication Networks contains over 20 articles by well known scientists and engineers reflecting the advances in modeling and simulation for telecommunications in the last five years Their research covers a broad spectrum of topics including analytic and hybrid cores for quick solutions of network design performance evaluation problems multimedia traffic behavior in different time scales improvement of the quality of the statistical analysis tools imbedded in simulation products combining source and lower layer models into two layer or three layer traffic models mobile and satellite communications propagation models and wide band optical networks propagation models verification and validation problems rare event simulation and accelerated simulation methods The book covers four primary topics multilayer traffic and multimedia traffic behavior quality of simulations accelerated simulation methods and verification validation and credibility of simulations and will be an essential reference for practicing engineers and academic researchers

*Detection of Intrusions and Malware, and Vulnerability Assessment* Klaus Julisch, 2005-06-24 This book constitutes the refereed proceedings of the second International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2005 held in Vienna Austria in July 2005 The 14 revised full papers presented were carefully reviewed and selected from 51 submissions The papers are organized in topical sections on obfuscated code detection honeypots vulnerability assessment and exploit analysis anomaly detection misuse detection and distributed intrusion detection and IDS testing

**Wireless Communications** Prathima Agrawal, Matthew D. Andrews, Philip J. Fleming, G. George Yin, Lisa Zhang, 2010-05-05 This volume contains papers based on invited talks given at the 2005 IMA Summer Workshop on Wireless Communications held at the Institute for Mathematics and Its Applications University of Minnesota June 22 July 1 2005 It presents some of the highlights of the workshop and collects papers covering a broad spectrum of important and pressing issues in wireless communications

**Emerging Research in Artificial Intelligence and Computational Intelligence** Hepu Deng, Duoqian Miao, Fu Lee Wang, Jingsheng Lei, 2011-09-09 This book constitutes together with LNAI 7002 LNAI 7003 and LNAI 7004 the refereed proceedings of the International Conference on Artificial Intelligence and Computational Intelligence AICI 2011 held in Taiyuan China in September 2011 The 265 revised full papers presented in the four volumes were carefully reviewed and selected from 1073 submissions The 83 papers presented in this volume are organized in topical sections on applications of artificial intelligence applications of computational intelligence automated problem solving brain models cognitive science data mining and knowledge discovering expert and decision support systems fuzzy logic and soft computing intelligent agents and systems intelligent control intelligent image processing

intelligent scheduling intelligent signal processing natural language processing nature computation neural computation pattern recognition rough set theory     **The Best of the Best** William H. Tranter, Desmond P. Taylor, Rodger E.

Ziemer, Nicholas F. Maxemchuk, Jon W. Mark, IEEE Communications Society, 2007-01-09 The Best of the Best Fifty Years of Communications and Networking Research consists of a group of 50 papers selected as the best published by ComSoc in its various journals in the Society's 50 year history The editors of the collection have written an essay to introduce the papers and discuss the historical significance of the collection and how they were selected for the collection The book divides the papers into two major categories Communications and Networking and groups them by decade within these major subdivisions     **Quality of Future Internet Services** Mikhail I. Smirnov, John Crowcroft, James Roberts, Fernando

Boavida, 2001-09-12 The 2001 International Workshop on Quality of future Internet Services QofIS 2001 held in Coimbra Portugal organized by COST Action 263 is the second of what we expect will become a series of successful QofIS workshops The previous workshop was held in Berlin in the year 2000 The areas of interest of QofIS cover the design implementation and provision of Quality of Service spanning key issues of current and emerging communication systems such as packet level issues flow level issues network level issues architectural issues and applications The emphasis of the QofIS2001 workshop is on horizontal end to end as well as vertical top down provision of quality of services covering all components of end systems and networks with the aim of identifying solutions enabling feasible and coherent QoS provision The QofIS2001 call for papers attracted 87 submissions from 23 Asian Australian European North American and South American countries These were subject to thorough review work by the Programme Committee members and additional reviewers who carried out their work using a specially built conference system WebChairing developed in Coimbra by Flor de Utopia that allowed full control of the submission and reviewing processes Based on the comments and recommendations of the reviews the final programme was defined in a Programme Committee meeting held at the University of Karlsruhe on June 5 2001     **Network**

**Performance Engineering** Demetres D. Kouvatsos, 2011-05-09 During recent years a great deal of progress has been made in performance modelling and evaluation of the Internet towards the convergence of multi service networks of diverging technologies supported by internetworking and the evolution of diverse access and switching technologies The 44 chapters presented in this handbook are revised invited works drawn from PhD courses held at recent HETNETs International Working Conferences on Performance Modelling and Evaluation of Heterogeneous Networks They constitute essential introductory material preparing the reader for further research and development in the field of performance modelling analysis and engineering of heterogeneous networks and of next and future generation Internets The handbook aims to unify relevant material already known but dispersed in the literature introduce the readers to unfamiliar and unexposed research areas and generally illustrate the diversity of research found in the high growth field of convergent heterogeneous networks and the Internet The chapters have been broadly classified into 12 parts covering the following topics Measurement

Techniques Traffic Modelling and Engineering Queueing Systems and Networks Analytic Methodologies Simulation  
Techniques Performance Evaluation Studies Mobile Wireless and Ad Hoc Networks Optical Networks QoS Metrics and  
Algorithms All IP Convergence and Networking Network Management and Services and Overlay Networks     *Multifractals*

David Harte, 2001-06-26 Although multifractals are rooted in probability much of the related literature comes from the physics and mathematics arena Multifractals Theory and Applications pulls together ideas from both these areas using a language that makes them accessible and useful to statistical scientists It provides a framework in particular for the evaluation     **Large Scale Networks** Radu Dobrescu, Florin Ionescu, 2016-10-03 This book offers a rigorous analysis of the achievements in the field of traffic control in large networks oriented on two main aspects the self similarity in traffic behaviour and the scale free characteristic of a complex network Additionally the authors propose a new insight in understanding the inner nature of things and the cause and effect based on the identification of relationships and behaviours within a model which is based on the study of the influence of the topological characteristics of a network upon the traffic behaviour The effects of this influence are then discussed in order to find new solutions for traffic monitoring and diagnosis and also for traffic anomalies prediction Although these concepts are illustrated using highly accurate highly aggregated packet traces collected on backbone Internet links the results of the analysis can be applied for any complex network whose traffic processes exhibit asymptotic self similarity perceived as an adaptability of traffic in networks However the problem with self similar models is that they are computationally complex Their fitting procedure is very time consuming while their parameters cannot be estimated based on the on line measurements In this aim the main objective of this book is to discuss the problem of traffic prediction in the presence of self similarity and particularly to offer a possibility to forecast future traffic variations and to predict network performance as precisely as possible based on the measured traffic history     **The Sixth International Symposium on Neural Networks (ISNN 2009)** Hongwei Wang, Yi Shen, Tingwen Huang, Zhigang Zeng, 2009-05-03 This volume of Advances in Soft Computing and Lecture Notes in Computer Science vols 5551 5552 and 5553 constitute the Proceedings of the 6 International Symposium of Neural Networks ISNN 2009 held in Wuhan China during May 26 29 2009 ISNN is a prestigious annual symposium on neural networks with past events held in Dalian 2004 Chongqing 2005 Chengdu 2006 Njing 2007 and Beijing 2008 Over the past few years ISNN has matured into a well established series of international conference on neural networks and their applications to other fields Following this tradition ISNN 2009 provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research Also it created a stimulating environment for the participants to interact and exchange information on future research challenges and opportunities of neural networks and their applications ISNN 2009 received 1 235 submissions from about 2 459 authors in 29 countries and regions Australia Brazil Canada China Democratic People's Republic of Korea Finland Germany Hong Kong Hungary India Islamic Republic of Iran Japan Jordan Macao Malaysia Mexico Norway Qatar Republic of

Korea Singapore Spain Taiwan Thailand Tunisia United Kingdom United States Venezuela Vietnam and Yemen across six continents Asia Europe North America South America Africa and Oceania Based on rigorous reviews by the Program Committee members and reviewers 95 high quality papers were selected to be published in this volume      **Advanced Topics in Multimedia Research** Sagarmay Deb,2012-02-17 As multimedia has become a very important technology significantly improving people s lives this book provides an up to date scenario of various fields of research being carried out in the area The book covers topics including web based co operative learning effective distance learning through multimedia quality control of multimedia on the internet recovery of damaged images Network on Chip NoC as a global communication vehicle and Network GPS for road conditions such as traffic and checkpoints We believe that the book will help researchers in the field to proceed further in their research on multimedia      Simulation Technologies in Networking and Communications Al-Sakib Khan Pathan,Muhammad Mostafa Monowar,Shafiullah Khan,2014-11-06 Simulation is a widely used mechanism for validating the theoretical model of networking or communication systems Although the claims made based on simulations are considered to be reliable how reliable they really are is best determined with real world implementation trials This book addresses various issues covering different mechanisms related to simulation technologies in networking and communications fields Focusing on the practice of simulation testing instead of the theory it reviews and evaluates popular simulation modeling tools and recommends the best tools for specific tests      Service Assurance with Partial and Intermittent Resources Petre Dini,Pascal Lorenz,José Neuman De Souza,2004-09-09 The 1st Workshop on Service Assurance with Partial and Intermittent Resources SAPIR 2004 was the first event in a series introducing the concept of pi resources and bridging it with the emerging and important field of distributed and heavily shared resources The topics concerning this event are driven by a paradigm shift occurring in the last decade in telecommunications and networking considering partial and intermittent resources pi resources The Internet converged networks delay tolerant networks ad hoc networking GRID supporting networks and satellite communications require a management paradigm shift that takes into account the partial and intermittent availability of resources including infrastructure networks computing and storage and service components in distributed and shared environments A resource is called partial p resource when only a subset of conditions for it to function to complete specification is met yet it is still able to provide a potentially degraded service while an intermittent or sporadic resource i resource will be able to provide a service for limited and potentially unpredictable time intervals only Partial and intermittent services are relevant in environments characterized by high volatility and fluctuation of available resources such as those experienced in conjunction with component mobility or ad hoc networking where the notion of traditional service guarantees is no longer applicable Other characteristics such as large transmission delays and storage mechanisms during the routing require a rethinking of today s paradigms with regards to service assurance and how service guarantees are defined



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