

DECLARATION OF GERARD P. GRENIER

I, Gerard P. Grenier, am over twenty-one (21) years of age. I have never been convicted of a felony, and I am fully competent to make this declaration. I declare the following to be true to the best of my knowledge, information and belief:

1. I am Senior Director of Publishing Technologies of The Institute of Electrical and Electronics Engineers, Incorporated (“IEEE”).
2. IEEE is a neutral third party in this dispute.
3. Neither I nor IEEE itself is being compensated for this declaration.
4. Among my responsibilities as Senior Director of Publishing Technologies, I act as a custodian of certain records for IEEE.
5. I make this declaration based on my personal knowledge and information contained in the business records of IEEE.
6. As part of its ordinary course of business, IEEE publishes and makes available technical articles and standards. These publications are made available for public download through the IEEE digital library, IEEE Xplore.
7. It is the regular practice of IEEE to publish articles and other writings including article abstracts and make them available to the public through IEEE Xplore. IEEE maintains copies of publications in the ordinary course of its regularly conducted activities.
8. The article below has been attached as Exhibit A to this declaration:

A.	B.Rupp, et. al., “INDEX: a platform for determining how people value the quality of their Internet access” 1998 Sixth International Workshop on Quality of Service, May 18-20, 1998.
----	--

9. I obtained a copy of Exhibit A through IEEE Xplore, where it is maintained in the ordinary course of IEEE’s business. Exhibit A is a true and correct copy of the Exhibit, as it existed on or about October 25, 2018.
10. The article abstracts from IEEE Xplore shows the date of publication. IEEE Xplore populates this information using the metadata associated with the publication.
11. B.Rupp, et. al., “INDEX: a platform for determining how people value the quality of their Internet access” was published as part of the 1998 Sixth International Workshop

on Quality of Service. The 1998 Sixth International Workshop on Quality of Service was held from May 18-20, 1998. Copies of the conference proceedings were made available no later than the last day of the conference. The article is currently available for public download from the IEEE digital library, IEEE Xplore.

12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001.

I declare under penalty of perjury that the foregoing statements are true and correct.

Executed on: 26 Oct 2018



EXHIBIT A

Institutional Sign In

Browse

My Settings

Get Help

Subscribe

Advertisement

Browse Conferences > 1998 Sixth International Work...

INDEX: a platform for determining how people value the quality of their Internet access

4

B. Rupp ; R. Edell ; H. Chand ; P. Varaiya

Author(s)

View All Authors

Export

to Collaborate

Alerts

Manage

Content

Alerts

Add to

Citation

Alerts

6

Paper Citations

21

Patent Citations

34

Full Text Views

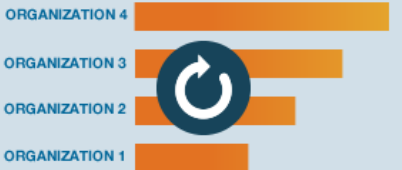
Related Articles

Determining effective marketing strategies to increase consumer participation in a local energy efficiency program using design of experiments
2011 IEEE Systems and Information Engineering Design Symposium
Published: 2011

Minimizing Electricity Cost: Optimization of Distributed Internet Data Centers in a Multi-Electricity-Market Environment
2010 Proceedings IEEE INFOCOM
Published: 2010

View All View More

See the top organizations patenting in technologies mentioned in this article



Click to Expand

Provided by:

InnovationQ PLUS
POWERED BY IEEE AND IP.COM
A PATENT SEARCH AND ANALYTICS TOOL

Related Articles

Determining effective marketing strategies to increase consumer participation in a local energy efficiency program using design of experiments
2011 IEEE Systems and Information Engineering Design Symposium
Published: 2011

Minimizing Electricity Cost: Optimization of Distributed Internet Data Centers in a Multi-Electricity-Market Environment
2010 Proceedings IEEE INFOCOM
Published: 2010

View All View More

See the top organizations patenting in technologies mentioned in this article



Click to Expand

Provided by:

InnovationQ PLUS
POWERED BY IEEE AND IP.COM
A PATENT SEARCH AND ANALYTICS TOOL

Advertisement

See the top organizations patenting in technologies mentioned in this article



Click to Expand

Provided by:

InnovationQ PLUS
POWERED BY IEEE AND IP.COM
A PATENT SEARCH AND ANALYTICS TOOL

Abstract

Abstract: The continuing exponential growth of the Internet and the emergence of new time-critical applications have led to the integration of a large number of different

- Figures
- References
- Citations
- Keywords
- Metrics
- Related Articles

Metadata

Abstract:

The continuing exponential growth of the Internet and the emergence of new time-critical applications have led to the integration of a large number of different services on the Internet. In the process, the question of how to efficiently allocate bandwidth as a scarce resource has become a crucial issue for the continued proliferation of these new services. Future growth depends on the division of services into quality-differentiated market segments and the pricing structure of each segment. Successful growth requires service providers to offer combinations of quality and price that match user needs, but to do this, providers must understand the structure of user demand. Such understanding is lacking at present. This paper describes a platform designed to obtain a basic understanding of how individuals value Internet usage when offered different quality-of-service (QoS) choices. The Internet Demand Experiment (INDEX) has two main objectives: (a) measurement of user demand for Internet access as a function of QoS, pricing structure and application; and (b) the demonstration of an end-to-end system that provides access to a diverse group of users at attractive price-quality combinations. The data being collected is expected to reveal the correlation between user application and service demand, how demand varies with user experience, and to what extent users form discrete market segments. This paper gives an overview of both the technology employed at INDEX and the goals of the experimental design.

Published in: 1998 Sixth International Workshop on Quality of Service (IWQoS'98) (Cat. No.98EX136)

Date of Conference: 18-20 May 1998 **INSPEC Accession Number:** 6033358

Date Added to IEEE Xplore: 06 August 2002 **DOI:** 10.1109/IWQOS.1998.675224

Print ISBN: 0-7803-4482-0

Publisher: IEEE

Conference Location: Napa, CA, USA, USA

Advertisement

Authors

Figures

References

Citations

Keywords

Metrics

IEEE Account

Profile Information

Purchase Details

Need Help?

Other

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
© Copyright 2018 IEEE. All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.