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TEME - Technology and Management

FILE DESCRIPTION

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SUBJECT COVERAGE

- Aerospace
- Automotive Research
- Ceramics and Plastics
- Civil Engineering
- Electrical Engineering and Electronics
- Energy
- Information Technology
- Instrumentation
- Machinery and Plants
- Management and Organization
- Manufacturing
- Materials, Metals, Paints
- Mechanical Engineering
- Medical Engineering
- Mining
- Textile Engineering
- Transportation

SOURCES

The following publications are indexed in the database: Journal Articles, Conference papers, Reports, Books, Dissertations, Patents, Compact Disks, Standards.

TIPS

USE FILE 95

to search literature in the areas of technology and management.

USE /DE

to search for a subject:

S PACKET SWITCHING/DE

USE CS=

to see which companies or universities are conducting work in an area of interest:

S CS=Dept. of Comput. Sci., Calgary Univ.?

USE RANK

to find additional descriptors:

S COMMUNICATION TRAFFIC/DE
RANK DE

USE YEAR LIMIT

to limit a search to recent articles:

SELECT S2/2000:2001

DIALOG FILE DATA

Inclusive Dates: 1989 to the present
Update Frequency: Weekly (1,800 records per update)
File Size:
Over 1,068,000 records as of December 2001

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SAMPLE RECORD

DIALOG(R)File 95:TEME-Technology & Management
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AA= 01568355 20011203242
/TI Internet traffic measurement
AU= Williamson, C
CS= Dept. of Comput. Sci., Calgary Univ., Alta., CDN
JN=,SO= IEEE Internet Computing, v5, n6, pp70-74
PD=,PY= 2001
DT=,LA= Document type: journal article Language: English
RT= Record type: Abstract
SN= ISSN: 1089-7801

/AB ABSTRACT:
The Internet's evolution over the past 30 years (1971-2001), has been accompanied by the development of various network applications. These applications range from early text-based utilities such as file transfer and remote login to the more recent advent of the Web, electronic commerce, and multimedia streaming. For most users, the Internet is simply a connection to these applications. They are shielded from the details of how the Internet works, through the-information-hiding principles of the Internet protocol stack, which dictates how user-level data is transformed into network packets for transport across the network and put back together for delivery at the receiving application. For many networking researchers however, the protocols themselves are of interest. Using specialized network measurement hardware or software, these researchers collect information about network packet transmissions. With detailed packet-level measurements and some knowledge of the IP stack, they can use reverse engineering to gather significant information about both the application structure and user behavior, which can be applied to a variety of tasks like network troubleshooting, protocol debugging, workload characterization, and performance evaluation and improvement. Traffic measurement technologies have scaled up to provide insight into fundamental behavior properties of the Internet, its protocols, and its users. The author introduces the tools and methods for measuring Internet traffic and offers highlights from research results.

/DE DESCRIPTORS: PACKET SWITCHING; PERFORMANCE EVALUATION; PROTOCOLS; REVERSE ENGINEERING METHOD; COMMUNICATION TRAFFIC; ELECTRONIC COMMERCE; PACKETS; OCCUPATIONAL STRESS
/ID IDENTIFIERS: INTERNET VERKEHR; VERKEHRSMESSUNG; INTERNET PROTOKOLL; PROTOKOLLPAKET; NUTZERVERHALTEN; BELASTUNGSEIGENSCHAFT; NETZWERK; Internet; Paketvermittlung

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SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S NETWORK(W)APPLICATION?
/AB	AB	Abstract[1]	Word	S FILE?(W)TRANSFER?/AB
/DE	DE	Descriptor[2]	Word & Phrase	S PACKET(W)SWITCHING/DE S COMMUNICATION TRAFFIC/DE
/ID	ID	Identifier[3,4]	Word & Phrase	S INTERNET(W)VERKEHR/ID S INTERNET PROTOKOLL/ID
/TI	TI	Title	Word	S INTERNET(W)TRAFFIC/TI

[1] Records include abstracts in English or German language.

[2] Also /DF.

[3] Also /IF.

[4] Records include identifiers in German language.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	TEME Accession Number	Phrase	S AA=20011203242
AU=	AU	Author	Phrase	S AU=WILLIAMSON, C
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=7-5416-1315-0
CS=	CS	Corporate Source	Word & Phrase	S CS=(CALGARY(W)UNIV) S CS=DEPT. OF COMPUT. SCI?
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
JN=	JN	Journal Name	Phrase	S JN=IEEE INTERNET COMPUTING
LA=	LA	Language	Phrase	S LA=ENGLISH
PD=	PD	Publication Date	Phrase	S PD=2001
PY=	PY	Publication Year	Phrase	S PY=2001
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=1089-7801
SO=	SO	Source Information[5]	Word	S SO=(INTERNET(W)COMPUTING AND V5)
UD=	—	Update	Phrase	S UD=9999

[5] Search and display include Journal Name, Volume, Issue, Pagination, and Publication Date.

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SPECIAL FEATURES

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

LIMIT	/**ABS** -- Abstract Present /**ENG** -- English-Language Records /**NOABS** -- No Abstract Present /**NONENG** -- Non-English-language records /**YYYY** -- Publication Year	S S2/ABS S S1/ENG S S3/NOABS S S5/NONENG S S4/2001
SORT	**AU, CS, JN, LA, PD, PY, TI**	SORT S5/ALL/AU SORT S1/ALL/PY/D
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK AU S4
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 95 CURRENT2

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NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Short	Title and Publication Year
7	Long	Bibliographic Citation and Abstract
8	Free	Title, Indexing, and Publication Year
9	Full	Full Record

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For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

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