Sujata Gamage<sup>1</sup> lirneasia.net

### Abstract

There is a great need for local research capacity in telecom reform in developing countries. In a previous paper<sup>2</sup> we made the argument that research which is not accessible on the internet is unusable, in particular, for users located in the developing world. We also pointed out the need to evaluate the quality and relevance of each internet presence. Links to and from a scholarly work on the internet can be used as indicators of quality. Mentorship extended to younger scholars and recognition received from practitioners can be used as indicators of relevance. In this study we assess **presence**, **quality and relevance** of telecom policy researchers in Asia, and present the results in the form of a set of **knowledge capacity score cards**. These score cards will serve as the framework for assessing and building knowledge capacity in telecom reform in Asia in the IDRC funded project on the same.

<sup>&</sup>lt;sup>1</sup> Director, Knowledge Networks , LIRNEasia, 12, Balcombe Place, Colombo 08, Sri Lanka Sri Lanka ; email: sujatagamage@yahoo.com ; tel : +94 11 441 0757

<sup>&</sup>lt;sup>2</sup> Gamage, Sujata and Rohan Samarajiva (2005, October). From Capacity to Presence: Research on Information and Communication Technology Infrastructure Reform in the Internet Age. PREPRINT. <u>http://www.lirneasia.net/wp-content/uploads/2006/02/ITID\_1.pdf</u>. The paper covers the conceptual issues in detail.

# Telecom Policy Research in Asia: A Framework for Assessing Knowledge Capacity

# 1. Introduction

The importance of knowledge as a driver of development is unquestioned. Universities, research institutes and other knowledge organizations in developing countries are often called upon to play a role in development without a prior evaluation or understanding of the knowledge capabilities of these institutions. In this paper we present a methodology to assess the capacity of knowledge producers at the individual, organizational, national or regional levels for use by development agencies and others who are actively involved in capacity building. This methodology takes into account the emergent centrality of the Internet as a medium to access, assess and retrieve information and know-how. The methodology may be used to improve and apply more effectively the knowledge capacity building efforts in developing countries.

The capacity of countries to acquire and use knowledge for development is typically expressed in terms of the size and quality of the relevant knowledge base. Knowledge outputs are measured by the per capita number of R&D institutions, researchers, patents, journal articles and international co-authorships (Wagner, et al., 2004 and references therein). The three citation indices, the Science Citation Index (SCI), the Social Science Citation Index (SSCI) and the Arts and Humanities Citation Index (A&HCI), compiled by isinet.com have become authoritative sources for assessing the extent and the quality of publications at all levels of analysis (Hicks,2004; Wagner et al., 2004).

The present work is the result of a knowledge networking initiative by LIRNE*asia*<sup>3</sup>, a regional research organization seeking to "improve the lives of the people of Asia by facilitating their use of information and communication technologies; by catalyzing the reform of the laws, policies and regulations to enable those uses; and by building Asia-based human capacity through research, training, consulting and advocacy."

# 2. ICT Infrastructure Reforms in Asia

Infrastructure reforms are vital to economic development. Information-communication, energy and transportation are three of the key infrastructures. Building infrastructure or providing infrastructure services does not mean that the builders have to be inventors too. For example, it is common nowadays for mobile network operators to completely outsource the design and even the operation of their network infrastructure to equipment manufacturers or others. 'Buy' is often the most viable option in the 'build or buy' choice for inputs faced by infrastructure operators in developing countries. In the 'buy' scenario, the requisite technical know-how is the expertise to adapt existing technology to local use. Graduates of engineering programs in local universities or technical colleges constitute the necessary expertise (Gamage & Samarajiva, 2003).

The know-how required to implement the necessary institutional reforms is more specialized and cannot be purchased along with the equipment. This know-how includes knowledge of economics, law and public administration along with an understanding of information and communication technologies and the ability to formulate and implement policies that enable the least cost and most beneficial options in infrastructure development. Donor agencies such

<sup>3</sup> www.lirneasia.net

as the World Bank may provide technical assistance for specific institutional reforms but even this must be complemented by local counterpart capacity.

There are several organizations in Asia devoted to aspects of research intended to contribute to ICT infrastructure reforms, generally focusing on particular countries/sub-regions or looking at ICT reforms as part of infrastructure reforms in general. What is lacking is a more coordinated effort to develop and nurture capacity in ICT infrastructure development across developing Asia. With this work we hope to identify some tools for assessing and using the capacity in Asia or elsewhere to contribute to ICT infrastructure development.

# 3. Measures of Knowledge Capacity

Existing knowledge indices (Knowledge Assessment Methodology, World Bank, 2005; Rand S&T Indicator, Wagner et al. 2004; or ARCO Technology Index, Archibugi & Cocco, 2004) are too broad to be applicable for policy makers at a national or institutional level. A practical set of possible metrics were identified in a recent paper on capacity building in a health science area (Fontera et al., 2006) but the metrics are yet to be developed fully.

The indices developed by World Bank and others use publications as indexed by isinet.com as an assessment of research outputs. Our experience in a real-life setting showed us that a targeted Internet search engine can uncover more scholars from developing countries than a database of peer-reviewed scholarly journals. Internet search engines can be used by anyone with Internet access, even the most basic dial-up version. In contrast, proprietary databases such as SSCI are not easily available in most countries in Asia.

We define two indicators – internet presence of researchers and quality and relevance of their presence – to assess research outputs better. We use the number of 'hits' received by an author on scholar.goolge.com as a measure of his/her internet presence and the number and type of citations received by an author or the number and type of collaboration of an author and several other measures to assess quality and relevance of that presence. The measures proposed here fall short of those proposed by Fontera et al. only in terms of indicators on the funding environment for researchers and we hope to add this dimension as more data become available.

# Presence

We used the term 'telecom' and its variants and each country name to retrieve scholarly documents relevant to telecom infrastructure reform from www.scholar.google.com. We retrieved only the first 200 'hits' for each country and manually filtered the records to get a total of 719 records of which 226 had at least one 'Asia'-based author for a total of 348 authors. In terms of countries, Scholar.google enabled us to restore six countries – Nepal, Sri Lanka, Indonesia, Malaysia, the Philippines and Thailand – to the map.

We also evaluated the number of research institutes or graduate program relating to telecom reform that is accessible over the internet to derive two indicators of internet presence, namely,

- 1. Distribution of Researchers in Telecom Reform in Asia, by Country
- 2. Distribution of Research Institutes/Academic Programs in Telecom Reform in Asia, by country

# Quality and Relevance

Internet presence by itself does not imply quality or relevance. Some of the records found on Scholar.google are pre-prints, conference proceedings, abstracts and student papers that have not been validated. However, Internet presence gives us a knowledge base that can be used as a starting point for further exploration of quality and relevance. We used the following as indicators of quality and relevance of a document or the author of one or more documents:

- 1. The number of citations received by a document
- 2. The acceptance of a document for publication in a peer-reviewed journal
- 3. The number of times a document is downloaded
- 4. The number of people who have been mentored as part of the scholarly activities of an author
- 5. The recognition score received by an author in a survey of telecom reform practitioners in the locale of influence for a given author

Scholar.google gives the number of citations for each record found. If there are several versions of the same paper they are presented as one record with the citations aggregated and the source of each version noted.

We also used the presence of an author in peer-reviewed venues such as the Social Science Citation Indexed (SSCI) database as a measure of quality. We searched the 2000-2005 SSCI database for any records containing the keyword 'telecom' or variants in the title or the abstract, and any of the 22 country names in the address field. The database was accessed through the Web of Science in August 2005. We manually filtered out entries that are not directly relevant to ICT infrastructure reforms to get 79 'Asian' records (or records with at least one Asian author) and 119 'Asian' authors.

In this study we present data for quality and relevance indicators 1 and 2 only. We are yet to fully develop or collect data for indicators 3 to 5.

# 4. Presentation

We present the indicators in the form of score cards which show the status as of June 2005. The term scorecards have their origins in the business world (Kaplan and Norton, 1996) but the concept is applicable in any context where performance is the issue. A scorecard presents performance data in reference to a selected set of performance targets for each key institutional or system goal. The indicators are presented typically on a one-page format where all key indicators can be seen at a glance – i.e. in a balanced score card format. In the initial stages we will be presenting the data in several score cards. Later we may be able convert the data to a more concise score card format.

The current status more or less reflects the disparities in GDP in the region. In determining benchmarks for the regions we applied the principle that it is necessary to have the knowledge capacity reflect the population distribution across the regions. And it is possible if a planned and consistent effort is made.

# 5. Results and discussion

There are currently 6 score cards covering presence and quality and relevance dimensions of capacity. Each card is accompanied by a key, notes, source information and a short commentary.

# **Capacity Score Card - 1**

### Presence

# **Researchers, by Country**

Country	Status, 2005	Benchmark	Gap	Country	Status, 2005	Benchmark	Gap
	2000				2000		
China	29	29	0	Cambodia	0	1	1
Hong Kong	32	32	0	Indonesia	8	12	4
Japan	31	31	0	Laos	0	1	1
South Korea	73	73	0	Malaysia	8	9	1
Taiwan	15	15	0	Myanmar	0	1	1
Afghanistan	0	4	4	Philippines	5	6	1
Bangladesh	7	17	10	Singapore	25	26	1
Bhutan	2	2	0	Thailand	4	6	1
India	92	129	37	Vietnam	0	4	4
Maldives	0	1	1	East Asia	180	180	0
Nepal	3	3	0	South Asia	116	176	60
Pakistan	5	18	13	SE Asia	50	65	15
Sri Lanka	7	2	-5	ALL	346	422	76

Distribution of Researchers in Telecom Reform in Asia, June 2005, by Region and Country



Key: Blue: East Asia; Red: South Asia; and Purple: South East Asia

# Source:

www.scholar.google.com searched using the key words "telecom reform" and each country name for 19 countries from South, South East and East Asia; and Social Science Citation Index; time period, Jan 2001-Jun 2005.

# Notes:

The analysis does not include Brunei, East Timor and North Korea.

There were a total of 745 documents that concerned a telecommunication policy issue in Asia. Of these documents 238 were authored by one or more individuals based in Asia. In addition to the 348 Asia-based persons who authored these papers, there were 30 others whose publications were included in the Social Science Citation Index but were not available on the internet.

To determine the benchmarks, we kept the number of authors from East Asia more or less at the present levels and adjusted the number of researchers from the other two regions so that the percentage of researchers from each region reflect the distribution of population across the three regions. In essence we used East Asia region as the benchmark region. The distribution within South Asia is set proportional to the population distribution, but for South East Asia we set the benchmarks not according to population but on past performance since a distribution according to population would have given benchmarks that are unrealistic in terms of current performance. For example, according to the population distribution calculations, Cambodia, Indonesia, Laos, Myanmar, Philippines, Thailand, and Vietnam, respectively, need 2, 18, 1, 6, 5, 3, 10 more researchers, respectively, and Malaysia and Singapore have excess capacity of 5 and 24 respectively, for a net of 15 more researchers needed in the region. In the case of South East Asia we made the realistic assessment that Singapore will continue to lead in the region, and distributed the additional 15 in a manner that gives marginal increases to all countries, with Indonesia and Vietnam receiving a higher increase because the need in those countries is greater.

#### **Comments:**

Significant gaps are found for Afghanistan, Bangladesh, India, Pakistan, Indonesia and Vietnam but a capacity building effort should be directed at all countries because the number of researchers from a given country as given here may not be that robust. Some authors may publish one occasional paper and then move onto other topics. Monitoring of publications over a period of time is necessary to make the data more robust.

#### Presence

#### **Training Programs, by Country**

Region	Country	Population,	Universities,	Universities,	Graduate
C	5	Thousands	All	Research	Programs
East Asia	China	1,296,500	352	26	12
East Asia	Japan	127,764	459	18	13
East Asia	Korea	48,142	72	14	16
East Asia	Taiwan	22,900	70	11	15
East Asia	Hong Kong	6,845	8	5	5
South Asia	India	1,079,721	275	16	9
South Asia	Pakistan	152,061	74	6	3
South Asia	Bangladesh	140,494	61	1	0
South Asia	Afghanistan	29,863	14	0	-
South Asia	Nepal	25,190	5	0	-
South Asia	Sri Lanka	19,444	15	1	0
South Asia	Bhutan	896	0	0	-
South Asia	Maldives	300	0	0	-
South East Asia	Indonesia	217,588	437	5	2
South East Asia	Philippines	82,987	141	4	3
South East Asia	Vietnam	82,162	51	1	2
South East Asia	Thailand	62,387	51	12	5
South East Asia	Myanmar	49,910	28	0	-
South East Asia	Malaysia	25,209	11	7	6
South East Asia	Cambodia	13,630	6	0	-
South East Asia	Laos	5,792	1	0	-
South East Asia	Singapore	4,335	2	2	3
ALL		3,494,120	2119	129	

Distribution of Academic Programs in Telecom Reform in Asia, June 2005

Key: Graduate Programs refer to graduate programs in telecom reform or related area

**Source:** Population Data (World Bank, 2004); Universities (International Association of Universities, www.unesco.org/iau, accessed August 2005); Universities in Afghanistan (Wikipedia); Research Universities (2000 Asia Week Survey of Universities)

Notes: A list of programs is appended.

#### **Commentars:**

Further work needs to be done to identify individuals from these programs who can serve as mentors to a new generation of researchers.

### Quality & Relevance

## Citations, Peer Review and Other

Miscellaneous Measures Indicative of Quality and Relevance of Telecom Research in Asia, June 2005

Indicator	Performance
Number of Asian researchers with Internet presence	346
Percent with 2 or more citations	27%
Percent with at least 1 citation	15%
Percent with no citations	58%
Percent with peer-reviewed publications in the ISI database	4%
(excluding Hong Kong and South Korea)	
Percent producing one or more Masters students per year	na
Percent producing one or more PhD students per year	na
Percent with name recognition by telecom reform practitioners	na



**Key:** ISI, Institute of Scientific Information; na: not available

Source: World Bank, International Association of Universities, 2000 Asia Week Survey of Universities

**Notes:** The total number of Asian researchers with publications is 377. These include those with publications only in scholar.google (258); only in isinet.com (29) in both (90). Percent citations is calculated after removing self-citations.

Percent with publications in the ISI database (including Hong Kong and South Korea) is 33%.

**Comments:** Ideally, all documents should have one or more citations but close 60% of publications here don't. As part of an IDRC funded project on capacity building LIRNEasia will be setting up a Web site for archiving publications in communication policy reform including telecom policy reform, and actively soliciting full-texts from authors in Asia. It is well-established that freely available publications receive a higher rate of citation. Apparently, over ninety percent of all journals and over 50% of ISI indexed journals allow authors to self-archive their publications but most authors do not take the trouble to archive (Harnard et al, 2004). Even if the journals do not allow self-archiving, there is generally no objection to archiving pre-publication drafts. LIRNEasia's project on self-archiving is are response to this problem. Realistic benchmarks may be worked out towards the end of project.

### Quality & Relevance

### Citations & Peer-Review, by Country

	Country	Internet	SSCI	Internet	Comments
		(Google)		(Google_Cited)	
East Asia	China	29	9	12	AFGHANISTAN,
East Asia	Hong Kong	32	18	13	LAOS, MALDIVES,
East Asia	Japan	31	13	16	MYANMAR, &
East Asia	South Korea	73	62	48	VIETNAW. Need to get these
East Asia	Taiwan	15	3	6	countries onto the
South Asia	Bangladesh	7	1	3	'map'.
South Asia	Bhutan	2	2	0	
South Asia	India	92	5	30	ALL COUNTRIES:
South Asia	Nepal	3	0	1	Need to increase the
South Asia	Pakistan	5	1	0	publications on
South Asia	Sri Lanka	7	0	5	Google
South East Asia	Indonesia	8	0	0	(Google_cited)
South East Asia	Malaysia	8	0	4	
South East Asia	Philippines	5	0	3	KOREA:
South East Asia	Singapore	25	5	20	internet presence
South East Asia	Thailand	4	0	2	relative to SSCI
ALL		346	119	163	presence.

Distribution of Researchers in Telecom Reform in Asia, by Source and Country



**Key**: Google: www.scholar.google.com; Google\_cites: Google records with citations; SSCI, Social Science Citation Index, 2000-August 2005 **Source:** See Key.

**Notes**: The total number of Asian researchers with publications is 377. These include those with publications only in scholar.google (258); only in isinet.com (29) in both (90). Percent with publications in the ISI database 33% (including Hong Kong and South Korea).

### **Quality & Relevance**

### **Citation Patterns**

Citation Patterns of Telecom Reform Researchers in Asia, June 2005

Indicator	Performance
Total number of Asian researchers with an Internet presence	346
Number of Asian researchers with Internet presence who have	150
been cited	
Cited by scholars in developed countries	74%
Cited by scholars in own country	16%
Cited by scholars in Asian countries other than their own	7%
Cited by scholars in non-Asian developing (other) countries	4%





# Key:

Source: LIRNEasia's analysis of scholar google data for August 2005.

**Notes:** Network diagram does not include own country or developed countries. Thickness of the line is proportional to the number of citations received.

**Comments:** At this point we do not see an advantage in increasing citations by one region or the other. More important is to assign a certain rank order to the citations. For example, a citation by another cited author should carry more weight than another with no citations.

### Quality & Relevance

## **Collaboration Patterns**

Collaboration Patterns in Telecom Reform Research in Asia

Indicator	Performance
Total number of Asian researchers with an Internet Presence	346
Number of Asian researchers with an Internet Presence who have	350
collaborated with each other	
Collaborations with scholars in Developed countries	19%
Collaborations with scholars in own country	78%
Collaborations with scholars in Asian countries other than their	3%
own	





**Key:** Dev: developed countries

Source: LIRNEasia's analysis of scholar.google data for August 2005.

**Notes:** Network diagram does not include within country collaborations. Thickness of the line is proportional to the number of collaboration between each set of countries.

**Comments:** The relationship between collaborations and quality and relevance need to be examined and extent of desired level collaboration determined accordingly.

#### References

Archibugi, D, & Alberto C. (2004). A New Indicator of Technological Capabilities for Developed and Developing Countries, *SPRU Electronic working Paper Series*, Paper No. 111

Frontera, Walter R, Marcus J Fuhrer, Alan M Jette, Leighton Chan, Rory A Cooper, Pamela W Duncan, John D Kemp, Kenneth J Ottenbacher8, P Hunter Peckham9, Elliot J Roth and Denise G Tate (2006). Rehabilitation medicine summit: building research capacity Executive Summary. *Journal of NeuroEngineering and Rehabilitation*, 3:1.

Gamage, S. & Samarajiva, R (2003). *Proceedings of the Second Biennial Conference on Science and Technology*. Colombo, Sri Lanka: National Science and Technology Commission.

Harnad, S., Brody, T., Vallieres, F., Carr, L., Hitchcock, S., Gingras, Y, Oppenheim, C., Stamerjohanns, H., & Hilf, E. (2004) The green and the gold roads to Open Access., *Nature Web Focus*. http://www.nature.com/nature/focus/accessdebate/21.html

Kaplan, R., and Norton, D. (1996). Using the Balanced Scorecard as a Strategic Management System. *Harvard Business Review* (January–February): 75–85.

Monge, Peter R. and Contractor, Noshir S. (2004). *Theories of Communication Networks*, New York, NY: Oxford University Press.

Prakash, Shiri (2005), Human Development Index in an Input Output Framework-An Alternative Approach, *Fifteenth International Input Output Conference*, 27th June-1st July, 2005, Beijing, Peoples Republic of China.

Rogers, R. (1996). The Future of STS on the Web, EASST Review: Volume 15(2) June 1996.

Rogers, R. (2002). Operating Issue Networks on the Web, *Science as Culture*, Volume 11, Number 2, 2002.

UNDP (2001). Human Development Report 2001: Making new technologies work for human development. Cary, NC: Oxford University Press.

Wagner, C.S., Brahmakulam, I., Jackson, B., Wong, A., & Yoda, T. (2004). Science and Technology Collaboration: Building Capacity in Developing Countries? (*MR-1357.0-WB*), Prepared for the World Bank, RAND Science and Technology.

World Bank (2005). *Knowledge Assessment Methodology*. Retrieved September, 2005, from <u>http://info.worldbank.org/etools/kam2005/index.htm</u>.

# Appendices

### Publications in Telecom Reform from East, South East and South Asia

Sorted by Country and Name and giving the Source, the number of Citations and the Title of the Publication. (All records are the result of searches using the key words "telecom\*\* and "country name for 2000-2005. Records accessed between July 2005 and August 2005).

Name of Author	Source	#Citations	Title of Paper
			Bangladesh
Ahmed-SN	Google	5	Digital divide: determinants and policies with special
	C		reference to Asia
Aminuzzaman-S	Google	0	Talking back! Empowerment and mobile phones in rural
	Google		Bangladesh: a study of the village phone scheme
Bayes-A	Google	2	Infrastructure and rural development: insights from a
	& SSCI		Grameen Bank village phone initiative in Bangladesh
Khaleque-MH	Google	0	Factors Shaping Successful Public Private Partnerships in
	Ũ		the ICT Sector In Bangladesh
Quadir-IZ	Google	3	Connecting Bangladeshi Villages
Sobhan-F	Google	0	Factors Shaping Successful Public Private Partnerships in
	0		the ICT Sector In Bangladesh
TIPU-MA	Google	0	An econometric estimation of the unmet demand for
			telecom services in South Asia
			Bhutan
Kezang	SSCI	0	Telecommunications in the land of the Thunder Dragon:
	0 1		recent developments in Bhutan
Penjor-K	Google	0	Bhutan Health Telematics Project: Overcoming the barriers
Tshering-G	Google	0	Bhutan Health Telematics Project: Overcoming the barriers
Whalley-J	SSCI	0	Telecommunications in the land of the Thunder Dragon:
			recent developments in Bhutan
D C	GGGI		
Berg-S	SSCI	0	Market performance of Chinese telecommunications: new
Chan D	Googla	0	Study of Mobile Baymonts System
Chyaia A	Google	0	E commerce in China Challenge of the 21 <sup>st</sup> Century
Degeorge F	SSCI	0	Selling company shares to reluctant employees: France
Degeorge-r	5501	0	Telecom's experience
Du-J	Google	1	Internet development in China
Efendic-N	Google	0	E-commerce in China Challenge of the 21 <sup>st</sup> Century
Fang-X	Google	0	Building Innovative Capability in Firms of Developing
C C	c		Countries to Face the Domestic Global
Guo-C	Google	0	Mobile telecom policy and business development in China
Guo-Q	SSCI	0	Market performance of Chinese telecommunications: new
			regulatory policies
Jain-PR	Google	0	A study of the telecom growth and reform in China
LIU-LS	Google	0	Fostering Competition Law and Policy: A Facade of
			Taiwan's Political Economy
Liu-X	Google	1	Capture the future of the internet: broadband development
		-	in China
Lou-H	Google	0	The Development of Digital Libraries in China and the USA
Lu-W	Google	1	Internet development in China
Ma-F	Google	1	Internet development in China
Mokudai-I	Google	0	E-commerce in China Challenge of the 21 <sup>st</sup> Century
Morris-PS	Google	0	A study of the telecom growth and reform in China
Kaghuram-PG	Google	0	A study of the telecom growth and reform in China
Shantong-LI	Google	1	Impacts and Policy Implications of WTO Accession for
			China

Name of Author	Source	#Citations	Title of Paper
Sum-Ngai-Ling	Google	0	INFORMATIONAL CAPITALISM AND US ECONOMIC
	C C		HEGEMONY
Sun-J	Google	0	Mobile telecom policy and business development in China
Tam-MCY	Google	12	An application of the AHP in vendor selection of a
	& SSCI		telecommunications system
Teng-Y	Google	0	Mobile telecom policy and business development in China
Tian-Z	Google	1	Capture the future of the internet: broadband development
	U		in China
Tummala-VMR	Google	12	An application of the AHP in vendor selection of a
	& SSCI		telecommunications system
Wang-R	Google	0	VoIP Development in China
Wang-YG	Google	0	An integrated framework for service quality, customer
	& SSCI	-	value, satisfaction: Evidence from China's
			telecommunication industry
Wan-JP	SSCI	0	Personalized telecommunication design: Investigation of
		-	metaphor
Wensheng-W	Google	1	Bridging the Digital Divide inside China
Wu-O	Google	4	Global and National Factors Affecting E-commerce
	8	-	Diffusion in China
Xu-X	SSCI	0	Personalized telecommunication design: Investigation of
	~~	-	metaphor
Yuiin-F	Google	1	Study of potential of Wireless Internet Technologies in
1 (()	000810	-	Manufacturing
Yu-LC	SSCI	0	Market performance of Chinese telecommunications: new
14 20	5501	Ũ	regulatory policies
Zhekun-L	Google	1	Study of potential of Wireless Internet Technologies in
Ellokuli E	000510	1	Manufacturing
Zheng-X			
	•		Hong Kong
Baark-E	Google	0	The Chinese road to high technology: A study of
	& SSCI	-	telecommunications switching technology in the economic
			transition.
Cao-J	Google	1	A Proactive Approach for Mobile GIS
CHAN-CSC	Google	0	Analysis of mobile commerce market in Hong Kong
CHAN-YY	Google	0	Analysis of mobile commerce market in Hong Kong
Chen-EKY	Google	2	Competition policy under laissez-faireism: Market power
	& SSCI	-	and its treatment in Hong Kong
Cheung-K	Google	0	Enhancing E-government in Developing Countries
chicking It	000510	Ũ	Managing Knowledge through Virtual Communities
Cheung-MT	Google	0	Concurrent-convergent strategy in IT consulting
In-R	Google	0	Enhancing E-government in Developing Countries:
ip it	Google	Ũ	Managing Knowledge through Virtual Communities
Kim-T	Google	4	Contingent claims valuation of optional calling plan
	Google		contracts in telephone industry
Kwan-KK	Google	1	A Proactive Approach for Mobile GIS
Lai-VS	Google	2	INTERNATIONAL DATA COMMUNICATIONS
Lam-PL	SSCI	0	Total factor productivity measures for Hong Kong
Luin I L	5561	0	telephone
Lam-T	SSCI	0	Total factor productivity measures for Hong Kong
	5501	Ĭ	telephone
Lee-E	Google	0	Enhancing E-government in Developing Countries:
	Google		Managing Knowledge through Virtual Communities
I ee_I	SSCI	1	The process innovation in a competitive
LUU-J	5501	1	telecommunications market: a case study
Lee-WB	Googla	0	Collaborative design in a networked enterprise. The acce of
	& SCUT	0	the telecommunications industry
I FUNG CH	Googla	0	Analysis of mobile commerce market in Hong Vong
LEUNO-CII	Guugie	v	Anarysis of moone commence market in nong Kong

Name of Author	Source	#Citations	Title of Paper
Leung-YW	Google	4	An incentive charging scheme for video-on-demand
Ū.	& SSCI		
Liao-Z	Google	0	Concurrent-convergent strategy in IT consulting
Lin-P	Google	2	Competition policy under laissez-faireism: Market power
	& SSCI		and its treatment in Hong Kong
Lo-HP	Google	0	An integrated framework for service quality, customer
	& SSCI		value, satisfaction: Evidence from China's
			telecommunication industry
Loo-BPY	SSCI	0	Telecommunications reforms in China: towards an
			analytical framework
Lovelock-P	Google	1	E-Government In China
Lovelock-P	Google		The WTO and China's ban on foreign investment in
	& SSCI		telecommunication services: a game-theoretic analysis
Ngai-EWT	Google		Implementation of EDI in Hong Kong: an empirical analysis
C	& SSCI		
Noori-H	Google		Collaborative design in a networked enterprise: The case of
	& SSCI		the telecommunications industry
Shi-JWZ	Google	1	A Proactive Approach for Mobile GIS
Sreekumar-TT	Google	0	De-hyping ICTs
Sun-S	Google	1	User behaviour and the "globalness" of the Internet: From a
	8	_	Taiwan users' perspective
TANG-FF	Google	0	Broadband market in South Korea. What is behind its rapid
	8	-	development?
Thong-JYL	SSCI	0	Tariff-quality equilibrium and its implications for
	~~	÷	telecommunications regulation
Ure-J	SSCI	3	The Era of International Simple Resale: not waving but
	5501	2	drowning?
Ure-J	Google	1	E-Government In China
Ure-J	Google	0	Modelling Critical Mass for E-Commerce: the Case of Hong
	Google	°	Kong
Ure-I	Google	2	Deconstructing 3G and reconstructing telecoms
	& SSCI	-	beenstuering 50 und recenst dering terecoms
Wang-G	Google	1	Foreign investment policies sovereignty and growth
() ung c	& SSCI	-	
Wang-G	Google	1	User behaviour and the "globalness" of the Internet. From a
() wing c	coogie	-	Taiwan users' perspective
Wong-EWM	Google	4	An incentive charging scheme for video-on-demand
	& SSCI		
Wu-LT	Google	0	Evolving PSTN to NGN
Yang-YH	Google	0	An integrated framework for service quality customer
rung rin	& SSCI	°	value, satisfaction: Evidence from China's
			telecommunication industry
Yan-X	SSCI	0	Tariff-mulity equilibrium and its implications for
Tun T	5501	°	telecommunications regulation
Yan-X	SSCI	0	The impact of the regulatory framework on fixed-mobile
i wii i i	5501	°	interconnection settlements: the case of China and Hong
			Kong
Yan-X	Google	0	Telecommunications regulation in Hong Kong
Zhao-Yun	Google	0	Further Liberalization of Telecommunications Services in
			the Framework of the WTO in the 21
			India
Agarwal-PK	Google	4	Building India's national Internet backbone
Agarwal-PK	Google	0	OPPORTUNITIES FOR INDO-ASEAN ECONOMIC
0			PARTNERSHIP
Ahluwalia-MS	Google	26	Economic Reforms in India Since 1991. Has Gradualism
			Worked?
Alam-P	Google	0	Digital Library: Infrastructure and Service

Name of Author	Source	#Citations	Title of Paper
Arunachalam-S	Google	13	Information and knowledge in the age of electronic
			communication: a developing country perspective
Aundhkar-A	Google	0	Exploring the Nature of Teleworking in Key Sectors in
			Mumbai
Babu-AGS	Google	0	Innovation in Access Terminals and Software Components
BAJAJ-KK	Google	0	Asia's Leap into E-commerce: Analysis of Developments in
D : 00	0 1	0	Some Countries
Bajwa-GS	Google	0	ICI policy in India in the era of liberalisation: its impact
Doloji A	Caarla	0	The consequences
Dalaji-A DANGA D	Google	0	IMPACT OF COVERNMENT POLICIES AND
DANGA-K	Google	1	INFACT OF GOVERNMENT FOLICIES AND INVESTMENT AGREEMENTS ON FDI INFLOWS
Basant-PR	Google	0	3G Reforms: Policy and Regulatory Implications 13 <sup>th</sup> and
Dusunt-1 K	Google	0	14 <sup>th</sup> of October 2000 Venue: KLMDC
Bavadekar-MP	Google	0	IV PROMOTING BUSINESS AND TECHNOLOGY
	00080	-	INCUBATION FOR IMPROVED COMPETITIVENESS
			OF SMALL AND MEDIUM
Bhagwat-P	Google	2	Turning 802.11 Inside-Out
Bhatiani-G	Google	0	Introducing competition in infrastructure sectors-progress
	C C		in South Asia
Bhatnagar-SC	Google	1	Enhancing Telecom Access in Rural India: Some Options
Boddu-G	Google	0	Internet Kiosks for Rural Communities: Using ICT
			Platforms for Reducing Digital Divide
Bowonder-B	Google	0	Providing Rural Connectivity Infrastructure: ICT Diffusion
			through Private Sector Participation
Bowonder-B	Google	0	E-governance in a fisherman's community: A case study of
			Pondicherry
Bowonder-B	Google	0	Internet Kiosks for Rural Communities: Using ICT
	0 1	0	Platforms for Reducing Digital Divide
Bowonder-B	Google	0	Developing a Rural Market e-hub The case study of e-
Chanda D	Caarla	1	CATS and its implications for developing countries: Key
Chanda-K	Google	1	issues and concerns
Chandra-PP	Google	0	3G Reforms: Policy and Regulatory Implications 13 <sup>th</sup> and
Chandra I I	Google	0	14 <sup>th</sup> of October. 2000 Venue: KLMDC
Chhibber-NK	SSCI	0	Telecommunications reform in India
Chowdary-TH	Google	2	Telecommunications in developing countries
Das-N	Google	2	Technology, efficiency and sustainability of competition in
	& SSCI		the Indian telecommunications sector
Desai-A	Google	3	The Dynamics of the Indian Information Technology
			Industry
Dhameja-A	Google	0	Information and Communication Technology in the
			Globalization Era: The Socio-economic Concerns
Dhar-A	Google	0	[PS] Access Networks
Ganesh-AC	Google	0	The changing face of India. Part I: bridging the digital
	0 1		divide
Garg-A	Google	0	Sri Lanka's experience in interconnection and liberalization
Charle MC	Carala	0	of international telecom segment 2
Gnosn-IVIS	Google	0	3G Reforms: Policy and Regulatory Implications 13 and $14^{th}$ of October 2000 Veryes: KLMDC
Consolves TA	Googla	7	The Pole of Technology in Telecom Expansion in India
Gonsalves TA	Google	0	The corDECT Wireless Local Loop: Capacity Predictions
Gothoskar-S	Google	0	Exploring the Nature of Teleworking in Key Sectors in
Gouloskal-D	Googie	0	Mumbai
Gupta-MA	Google	0	IV PROMOTING BUSINESS AND TECHNOLOGY
		-	INCUBATION FOR IMPROVED COMPETITIVENESS
			OF SMALL AND MEDIUM

Name of Author	Source	#Citations	Title of Paper
Gupta-V	Google	0	Developing a Rural Market e-hub The case study of e-
			Choupal experience of ITC
Jain-A	Google	0	E-governance in a fisherman's community: A case study of
			Pondicherry
Jain-A	Google	0	Providing Rural Connectivity Infrastructure: ICT Diffusion
	~		through Private Sector Participation
Jain-RS	Google	3	Spectrum auctions in India: lessons from experience'
Jain-RS	Google	1	Governance issues in telecom: Wireless in local loop
L' DC	C 1	0	(limited mobility)
Jain-KS	Google	0	TELEDITONY A DEDODT
Join DS	Googla	2	Spectrum quotions in India: lossons from experience
Jain-Ko	& SSCI	5	spectrum adenois in mula. ressons nom experience
Jaiswal-MP	Google	0	Cost-quality based consumer perception analysis of voice
Juis w ui-1411	Google	0	over Internet protocol (VoIP) in India
Jawaid-AH	Google	0	Digital Library: Infrastructure and Service
Jhunihunwala-A	Google	<u> </u>	Role of Fibre in Access Network for the Developing World
Jhunihunwala-A	Google	0	Towards hundred million Telephones and 25 million
viidiljiidii (raid 11	000810	Ŭ	Internet connections in India
Jhunihunwala-A	Google	0	Introduction
Jhunjhunwala-A	Google	1	Making the telecom and IT revolution work for us
Jhunjhunwala-A	Google	0	Fiber access networks for India and other developing
5	C		countries
Jhunjhunwala-A	Google	0	Fibre access network for India as India poises for growth
Jhunjhunwala-A	Google	7	The Role of Technology in Telecom Expansion in India
Joshi-SR	Google	0	TECHNOLOGICAL LEAPFROGGING: AN OVERVIEW
	C		OF NEW COMMUNICATION TECHNOLOGIES IN
			INDIA
Kabra-M	Google	0	Sri Lanka's experience in interconnection and liberalization
			of international telecom segment 2
Kanjilal-U	Google	0	NATIONAL INFORMATION INFRASTRUCTURE:
			EDUCATION AND TRAINING NEEDS OF
			INFORMATION PROFESSIONALS IN
Karandikar-PA	Google	0	Access Networks
Kathuria-R	Google	0	Telecommunications Reform and the Emerging 'New-
			Economy': The Case of India
KAUR-S	Google	0	PRIVATIZATION AND PUBLIC ENTERPRISE
V 11 DD	0 1	0	REFORM: A SUGGESTIVE ACTION PLAN
Kaushik-PD	Google	0	UNIVERSITY OF CALIFORNIA SANTA CRUZ
			ECONOMICS DEPARTMENT WORKING PAPER
Kullrami D	Casala	0	SERIES The Devence of Distance, Vislambility Analysis of Critical
Kuikami-K	Google	0	Information Infrastructure
Kumar D	Google	1	Indian Rural Talanhony, Post Reform Challenges
Kumar-K I	Google	1	India and Pakistan: From transitional to network societies?
Kumar-N	Google	0	F-governance in a fisherman's community: A case study of
Kumar-iv	Googie	0	Pondicherry
Kumar-R	Google	0	The corDECT Wireless Local Loop: Capacity Predictions
Lal-K	Google	1	E-business and Export Behaviour
Manikutty-S	Google	0	REFORMS IN THE TELECOMMUNICATIONS SECTOR
	00081	-	IN INDIA: AN INSTITUTIONAL VIEW First Draft
Mathiyazhagan-K	Google	0	Economic growth in India: does foreign direct investment
			inflow matter?
Mehta-A	Google	1	The Internet in India: Better Times Ahead?
Menon-MPKB	Google	0	IV. PROMOTING BUSINESS AND TECHNOLOGY
			INCUBATION FOR IMPROVED COMPETITIVENESS
			OF SMALL AND MEDIUM
Mukherjee-A	Google	0	Location management in mobile wireless networks

Name of Author	Source	#Citations	Title of Paper
MUKHERJI-R	Google	0	Managing Competition: Politics and the Building of
	-		Independent Regulatory Institutions
Mustafi-S	Google	0	China and India: The Firm, Industry and Nation Linkage
			Revisited in the Context of Globalization
NAGABHUSHA	Google	0	NATIONAL INFORMATICS CENTRE PLANNING
NAM-DRG			COMMISSION GOVT. OF INDIA NEW DELHI, INDIA
	~ .		SECTION-I: COUNTRY
Nair-KGK	Google	5	Development through Information Technology in
	C 1	0	Developing Countries: Experiences from an Indian State
Narayanan-A	Google	0	Providing Rural Connectivity Infrastructure: IC1 Diffusion
Nilsom V	Coogla	0	The changing face of India Dart I: bridging the digital
INIKAIII-K	Google	0	divide
Pal-R	Google	3	Global service portability and virtual home environment
1 d1-1X	Googie	5	through short message service (SMS) and GSM
Pande-AS	Google	1	An Emergent Complex Systems Perspective on E-
Tunde Tib	000510	1	Governance
Parthasarathi-A	Google	2	A champion of new technologies
Pillai-GA	Google	0	Exploring the Nature of Teleworking in Key Sectors in
		-	Mumbai
Prasad-D	Google	0	Policy Issues to be Addressed for Providing Universal
	-		Internet Connectivity in India using a Hybrid
Prasad-M	Google	0	Terrestrial mobile communication train measurements in
			Western India
Prasad-PN	Google	5	Development through Information Technology in
			Developing Countries: Experiences from an Indian State
Raghav-B	Google	0	Cost-quality based consumer perception analysis of voice
	a 1		over Internet protocol (VoIP) in India
Rajan-R	Google	8	"Will Asian Economies Gain from Liberalizing Trade in
Dama mutiti D	Coolo	7	Services?
Ramamurtni-B	Google	/	The Role of Technology in Telecom Expansion in India
Kangarajan-S	Google	0	The worldspace system: Use for science and
Rastogi-AR	Google	0	THE INFRASTRUCTURE SECTOR IN INDIA 2001–2
Rawat-MK	Google	0	Digital Library: Infrastructure and Service
Roychowdhury-S	Google	0	Public Sector Restructuring and Democracy: The State
rtoyenowanary s	000510	Ŭ	Labour and Trade Unions in India
Rov-R	Google	0	Internet Diffusion in India and China–Comparison Based on
- 5		-	Feedback Loop Dominance
Roy-R	Google	3	Anticipating internet diffusion
Saha-D	Google	0	Location management in mobile wireless networks
Sahoo-D	Google	0	Economic growth in India: does foreign direct investment
			inflow matter?
Sanghi-D	Google	2	Turning 802.11 Inside-Out
Sanghi-D	Google	1	Governance issues in telecom: Wireless in local loop
			(limited mobility)
Sanjay-C	Google	0	Innovation in Access Terminals and Software Components
Sarkar-SK	Google	0	Introducing competition in infrastructure sectors–progress
C1 4			In South Asia
Sharma-A	Google	0	Innovation in Access Terminals and Software Components
Sharma-DC	SSCI	0	Developing a Dural Market a light The
Singn-A	Google	U	Chound experience of ITC
Singh P	Googla	0	Choupal experience of 11C
Singii-K	Google	U	Western India
Sinha-S	Google	3	TP case study: fixed-mobile interconnection in India
	& SSCI	5	11 case study, inter moone interconnection in main

Name of Author	Source	#Citations	Title of Paper
Sridhar-V	Google	0	Modeling Growth of Cellular Services in India: A Systems
	C		Dynamics Approach
Sridhar-V	Google	0	A Comparison of American and Indian Consumers'
	C		Perceptions of Electronic Commerce
Talukder-AK	Google	0	Global service portability and virtual home environment
			through short message service (SMS) and GSM
Tamizhchelvan-M	Google	0	The changing face of India. Part I: bridging the digital
			divide
Thirumurthy-R	Google	0	Innovation in Access Terminals and Software Components
Venkatesh-G	Google	0	Policy Issues to be Addressed for Providing Universal
	8	Ĩ	Internet Connectivity in India using a Hybrid
Virmani-A	Google	3	From Poverty To Middle Income: Reforms for Accelerating
		-	Growth in the 21 <sup>st</sup> Century
Virmani-A	Google	0	Competitive Access to Telecom: Spectrum Policy and M &
,	000810	Ũ	As
Virmani-A	Google	0	"Trade Liberalization and Poverty in Asia: Issues and Policy
	00080	-	Options (by R S. Raian)
			Indonesia
Bratahalim-S	Google	0	PALAPA - Past present and future
Mengko-TLR	Google	0	Overview of Telemedicine Activities in Indonesia: Progress
Okowaty-S	Google	0	Overview of Telemedicine Activities in Indonesia: Progress
Dortmann DA	Google	0	DALADA Dest present and future
Forumann-PA Soodormoodi D	Google	0	Talaaammuniaationa in Indonesia
Soedarmadi-P	Google	0	
Suksmono-AB	Google	0	Overview of Telemedicine Activities in Indonesia: Progress
Suryadi	Google	0	PALAPA - Past, present and future
Suryawan-T			PALAPA - Past, present and future
			Malaysia
Hasım-MS	Google	0	SOUTH EAST ASIA'S RESPONSE TO THE ADVENT
	~ .	-	OF INFORMATION ERA: EMPHASIS ON MALAYSIA
Ismail-H	Google	3	What drives customer loyalty: An analysis from the
	~ .	-	telecommunications industry
Karim-MRA	Google	0	Technology and Improved Service Delivery: Learning
			Points from the Malaysian Experience
Khatibi-AA	Google	3	What drives customer loyalty: An analysis from the
			telecommunications industry
Komiya-R	Google	0	A Global Multimedia Test-bed: Malaysia's Multimedia
			Super Corridor
Lee-C	Google	3	Telecommunications Reforms In Malaysia
Ng-KH	Google	0	A Global Multimedia Test-bed: Malaysia's Multimedia
			Super Corridor
Thyagarajan-V	Google	3	What drives customer loyalty: An analysis from the
			telecommunications industry
			Nepal
Akhtar-S	Google	2	Internet technologies in the Himalayas. Lessons learned
	~	-	during the 1990s
Binod-V	Google	0	Rural Digital Library: Connecting Rural Communities in
	<u> </u>		Nepal
Shrestha-JN	Google	0	Rural Digital Library: Connecting Rural Communities in
			Nepal
			Pakistan
Akhtar-MH	Google	0	Liberalizing telecom sector in Pakistan: issues and prospects
Anjum-T	Google	0	PRIVATISATION OF PUBLIC UTILITIES: A
			CONSUMER PERSPECTIVE
Humayun-AS	Google	0	PRIVATISATION OF PUBLIC UTILITIES: A
			CONSUMER PERSPECTIVE
Mahmood-K	Google	0	Multipurpose community telecenters for rural development
	& SSCI		in Pakistan
Waqar-H	Google	0	Liberalizing telecom sector in Pakistan: issues and prospects

Name of Author	Source	#Citations	Title of Paper
			Philippines
Alampay-E	Google	0	The impact of access strategies and policies to ICTs: the
			case of Carmona and Puerto Princesa
Paragas-F	Google	0	Telecommunications in the Philippines: Perspectives on the
			Digital Divide
Quibria-MG	Google	5	Digital divide: determinants and policies with special
	~ 1		reference to Asia
Reyes-ML	Google	5	Digital divide: determinants and policies with special
C C D	C 1	7	
Serafica-K	Google	/	Competition in Philippine Telecommunications: A Survey
			of the Unitical Issues.
Chan S	Casala	0	Constraints on E commerce in Loss Developed Countries
Chen-5	Google	0	The Case of China
Chen-S	Google	7	Characterization and modeling of in-building power lines
Chen-b	Google	/	for high-speed data transmission
Fu-WW	SSCI	0	Termination-discriminatory pricing, subscriber
	~~ ~ ~ ~ ~	-	bandwagons, and network traffic patterns: the Taiwanese
			mobile phone market
Guan-YL	Google	7	Characterization and modeling of in-building power lines
	Ũ		for high-speed data transmission
Gunawan-E	Google	7	Characterization and modeling of in-building power lines
	_		for high-speed data transmission
Haque-MS	Google	2	E-governance in India: its impacts on relations among
			citizens, politicians and public servants
Ho-KC	Google	4	'Sites' of resistance: alternative websites and state-society
			relations
Kay-CS	Google	0	Factors Affecting Internet Development: An Asian Survey
Khondker-H	Google	4	'Sites' of resistance: alternative websites and state-society
		-	relations
Law-L	Google	2	Transnational cyberpublics: new political spaces for labour
I: TT	& SSCI	7	migrants in Asia
Lie-II	Google	/	for high speed data transmission
LONG GEOFE	Google	0	THE ASIA CRISIS AND INFORMATION AND
LONG-GLOIT	Google	0	COMMUNICATION TECHNOLOGIES (ICT)
Mahmood-IP	Google	11	Technological dynamism in Asia
Meegan-S	Google	2	Alliance as Innovation Accelarators: The case of NTT
Weegun 5	Google	2	DoCoMo's i-mode and 3G Mobile
Ng-J	Google	0	Asia-Pacific Telecommunications Liberalisation and
0		-	Productivity Performance
Peitz-M	Google	2	Competition in telecommunications: an introduction
	& SSCI		
Pok-SH	Google	1	Adoption of the Internet and WAP-enabled phones in
			Singapore
Poletti-S	Google	0	Network interconnection with participation constraints
	& SSCI		
Rajan-RS	Google	1	International trade in services in selected ASEAN countries:
			telecommunications and finance
Singh-J	Google	11	I echnological dynamism in Asia
So-PL	Google	1	Characterization and modeling of in-building power lines
<b>T</b> I <b>T</b>	C 1	7	for high-speed data transmission
Tang-LT	Google	/	Characterization and modeling of in-building power lines
Teo TSH	Googla	1	Adoption of the Internet and WAD apphlad phones in
100-130	Google	1	Singapore
Tschang_T	Google	5	Digital divide: determinants and policies with special
1 5011011 <u>5</u> -1	Google	5	reference to Asia

Name of Author	Source	#Citations	Title of Paper
Williamson-P	Google	2	Alliance as Innovation Accelarators: The case of NTT
	-		DoCoMo's i-mode and 3G Mobile
Wong-PK	Google	3	Globalization and E-Commerce: Growth and Impacts in
C C	C		Singapore
Wong-PK	Google	2	Global and national factors affecting e-commerce diffusion
C C	& SSCI		in Singapore
Xiaoming-H	Google	0	Factors Affecting Internet Development: An Asian Survey
			South Korea
Ahn-BH	Google	0	Cross ownership of wireline and wireless communications
	& SSCI		carriers: synergy or collusion?
Ahn-JH	Google	0	Managing risk in a new telecommunications service
	& SSCI		development process through a scenario planning approach
Ahn-JH	SSCI	0	Bridging telecommunications service: its concept and
			related management strategy
Ahn-JH	SSCI	0	Learning from the failure: experiences in the Korean
			telecommunications market
Bae-ZT	Google	0	Changing patterns of technological cooperation activities of
	& SSCI		innovative small firms along technological development
			stages in the Korean telecommunication sector
Byoung-Hoon-L	Google	0	Divided Workers
Byun-SK	Google	0	Mobile handset subsidy policy in Korea: historical analysis
	_		and evaluation
Cha-KC	SSCI	0	Bridging telecommunications service: its concept and
			related management strategy
Cho-DH	SSCI	1	Influential factors in the choice of technology acquisition
			mode: an empirical analysis of small and medium size firms
			in the Korean telecommunication industry
Choi-BS	Google	0	Cross ownership of wireline and wireless communications
	& SSCI		carriers: synergy or collusion?
Choi-H	Google	4	Contingent claims valuation of optional calling plan
			contracts in telephone industry
Choi-M	Google	4	The late take-off phenomenon in the diffusion of
	& SSCI		telecommunication services: network effect and the critical
			mass
Choi-SK	Google	8	Competition in Korean mobile telecommunications market:
	& SSCI		business strategy and regulatory environment
Cho-SH	Google	1	Optional telephone subscription scheme: a unique
	& SSCI		experiment in Korea
Choung-JY	Google	0	Patterns of knowledge production: The case of information
	& SSCI	-	and telecommunication sector in Korea
Chung-GH	Google	8	Competition in Korean mobile telecommunications market:
	& SSCI		business strategy and regulatory environment
Chung-JW	Google	0	Changing patterns of technological cooperation activities of
	& SSCI		innovative small firms along technological development
И.Б		0	stages in the Korean telecommunication sector
Han-D	Google	0	Prioritization and selection of intellectual capital
	& SSCI		measurement indicators using analytic hierarchy process for
TT T		0	the mobile telecommunications industry
Han-I	Google	0	Prioritization and selection of intellectual capital
	a ssci		the mobile telecommunications industry
Hop S	Caarla	1	The Evolution of the National Innovation System in the
Han-S	Google	1	I ne Evolution of the National Innovation System in the
Unp 87	Googla	0	A forward looking analysis of residential talenhone access
TIUII-5Z	Google	0	A forward-tooking analysis of residential telephone access
Hub W	Googla	1	Information Flows on the Internet of Varea
Hwang C	SSCI	1	The process inpovation in a competitive
Tiwang-O	5501		talegommunications market: a case study
	1	1	terecommunications market. a case study

Name of Author	Source	#Citations	Title of Paper
Jeong-DH	Google	6	The effects of customer satisfaction and switching barrier on
C	& SSCI		customer loyalty in Korean mobile telecommunication
			services
Jun-DB	Google	1	Forecasting telecommunication service subscribers in
	& SSCI		substitutive and competitive environments
Jun-DB	SSCI	0	Bridging telecommunications service: its concept and
			related management strategy
Kim-BD	Google	1	Managing capacity through reward programs
	& SSCI		
Kim-BW	Google	1	Determination of the Optimal Access Change for the Mobile
	-		Virtual Network Operator System
Kim-DJ	Google	0	Demand for Number Portability in the Korean Mobile
			Telecommunications Market: Contingent Valuation
Kim-DY	SSCI	0	Economic liberalism and the Philippine telecom industry
Kim-H	Google	0	Mobile handset subsidy policy in Korea: historical analysis
			and evaluation
Kim-H	Google	1	Information Flows on the Internet of Korea
Kim-HJ	Google	0	Voice over IP in the Local Exchange: A Case Study
Kim-HJ	Google	0	Mobile handset subsidy policy in Korea: historical analysis
			and evaluation
Kim-HS	SSCI	0	Determinants of subscriber churn and customer loyalty in
			the Korean mobile telephony market
Kim-HS	Google	9	The advantage of network size in acquiring new subscribers:
	& SSCI		a conditional logit analysis of the Korean mobile telephony
			market
Kim-I	Google	4	Contingent claims valuation of optional calling plan
	~ .		contracts in telephone industry
Kim-J	Google	1	business implications of the mobile internet: a cross-
W: 10	0 1	0	national survey in Hong Kong, Japan and Korea
Kim-JC	Google	0	A forward-looking analysis of residential telephone access
<u>и.</u> ю	C 1	2	demand in Korea
Kim-JS	Google	2	Value-focused thinking about strategic management of radio
<u>и.</u> ю		0	spectrum for mobile communications in Korea
Kim-JS	Google	0	Changing patterns of technological cooperation activities of
	a 5501		stages in the Kereen telecommunication sector
Kim IV	Googla	1	Payanua Sharing and Interconnection in the Wireless
KIIII-J I	Google	1	Internet
Kim-IV	Google	21	An economic analysis of the receiver navs principle
KIIII-J I	& SSCI	21	An economic analysis of the receiver pays principle
KIM-IYOO	Google	0	THE REVENUE-SHARING RULE FOR
Killy 9100	000510	0	INTERCONNECTION CHARGES
Kim-K	SSCI	0	The structure of the international telecommunications
	5501	0	regime in transition. A network analysis of international
			organizations
Kim-MK	Google	6	The effects of customer satisfaction and switching barrier on
	& SSCI	-	customer loyalty in Korean mobile telecommunication
			services
Kim-MS	SSCI	0	Learning from the failure: experiences in the Korean
			telecommunications market
Kim-MY	Google	0	A forward-looking analysis of residential telephone access
	-		demand in Korea
Kim-PR	SSCI	0	R&D and firm size in the information and
			telecommunications industry of Korea
Kim-SK	Google	1	Forecasting telecommunication service subscribers in
	& SSCI		substitutive and competitive environments
Kim-TY	Google	2	Value-focused thinking about strategic management of radio
	& SSCI		spectrum for mobile communications in Korea

Name of Author	Source	#Citations	Title of Paper
Kim-Y	Google	0	Effects of consumer preferences on the convergence of
	& SSCI		mobile telecommunications devices
Koh-D	Google	0	Effects of consumer preferences on the convergence of
	& SSCI	Ĩ	mobile telecommunications devices
Kwon-N	Google	9	The advantage of network size in acquiring new subscribers:
	& SSCI		a conditional logit analysis of the Korean mobile telephony
			market
Lee-D	Google	3	Broadband access in Korea: experience and future
	8	-	perspective
Lee-DJ	SSCI	0	Learning from the failure: experiences in the Korean
	5501	0	telecommunications market
Lee-I	Google	1	-business implications of the mobile internet: a cross-
	000810	-	national survey in Hong Kong. Japan and Korea
Lee-JD	Google	0	Effects of consumer preferences on the convergence of
200 02	& SSCI	0	mobile telecommunications devices
Lee-K	Google	10	Telecommunication node clustering with node compatibility
	& SSCI	10	and network survivability requirements
Lee-MH	Google	8	Competition in Korean mobile telecommunications market
	& SSCI	0	business strategy and regulatory environment
Lee-NC	Google	1	Revenue-Sharing and Interconnection in the Wireless
	Google	1	Internet
Lee-SW	Google	0	A new venture performance model in the Korean
	& SSCI	0	information and telecommunications industry
Lee-SW	Google	0	Demand for Number Portability in the Korean Mobile
	Google	0	Telecommunications Market: Contingent Valuation
Lee-SW	Google	2	Double marginalization' problems: evidence from the
L00-5 W	& SSCI	2	Korean fixed-to-mobile service market
Lee-V	Google	1	-business implications of the mobile internet: a cross-
1.00-1	Google	1	national survey in Hong Kong Japan and Korea
Lee-VH	SSCI	7	Substitution between mobile and fixed telephones in Korea
Lee_VK	Google	3	Broadband access in Korea: experience and future
	Google	5	nerspective
Lee-VS	Google	0	Transformation of the Telecommunications Industry in
100-15	Google	0	North Korea
L im_BI	Google	4	The late take-off phenomenon in the diffusion of
LIII-DL	& SSCI	-	telecommunication services: network effect and the critical
	a sser		mass
LIM-Y	Google		THE REVENUE-SHARING RULE FOR
	Google		INTERCONNECTION CHARGES
LIM-Y	Google	21	An economic analysis of the receiver pays principle
	& SSCI	21	The economic unarysis of the receiver pays principle
Min-HG	Google	0	Patterns of knowledge production: The case of information
WIIII-110	& SSCI	0	and telecommunication sector in Korea
Mody-B	Google	0	Predictors of downsizing in the US local telephone industry
Mody D	& SSCI	0	redictors of downsizing in the objiced telephone industry
Moon-IS	Google	0	Fixed AND Mobile Service Convergence AND
	Google	0	Reconfiguration OF Telecommunications Value Chains
Nam-C	Google	0	Fixed AND Mobile Service Convergence AND
i tulli C	000510	0	Reconfiguration OF Telecommunications Value Chains
Nam-C	Google	1	Mergers and acquisitions in the telecommunications
	& SSCI	1	industry. Myths and reality
Nazem-SM	Google	2	Multicriteria hub decision making for rural area
	& SSCI	-	telecommunication networks
Noh-SI	Google	0	Multidimensional quality assessment of multimedia
1,011.00	& SSCI		telecommunications systems for enhancing customer
			satisfaction
L	1	1	

Name of Author	Source	#Citations	Title of Paper
Park-HS	Google	0	Multidimensional quality assessment of multimedia
	& SSCI		telecommunications systems for enhancing customer
			satisfaction
Park-K	Google	10	Telecommunication node clustering with node compatibility
	& SSCI		and network survivability requirements
Park-M	Google	0	Mobile handset subsidy policy in Korea: historical analysis
	U		and evaluation
Park-MC	Google	0	A new venture performance model in the Korean
	& SSCI		information and telecommunications industry
Park-MC	Google	0	Demand for Number Portability in the Korean Mobile
			Telecommunications Market: Contingent Valuation
Park-MC	Google	6	The effects of customer satisfaction and switching barrier on
	& SSCI		customer loyalty in Korean mobile telecommunication
			services
Park-MC	Google	2	'Double marginalization' problems: evidence from the
	& SSCI		Korean fixed-to-mobile service market
Park-MC	Google	0	Mobile handset subsidy policy in Korea: historical analysis
	U		and evaluation
Park-MC	Google	0	Patterns of knowledge production: The case of information
	& SSCI		and telecommunication sector in Korea
Park-MC	Google	1	Mergers and acquisitions in the telecommunications
	& SSCI		industry: Myths and reality
Park-MC	Google	4	The late take-off phenomenon in the diffusion of
	& SSCI		telecommunication services: network effect and the critical
			mass
Park-MC	Google	0	Multidimensional quality assessment of multimedia
	& SSCI	-	telecommunications systems for enhancing customer
			satisfaction
Park-S	Google	10	Telecommunication node clustering with node compatibility
	& SSCI		and network survivability requirements
Park-SU	Google	1	Determination of the Optimal Access Change for the Mobile
	-		Virtual Network Operator System
Park-YS	Google	1	Forecasting telecommunication service subscribers in
	& SSCI		substitutive and competitive environments
Park-YS	Google	0	Cross ownership of wireline and wireless communications
	& SSCI		carriers: synergy or collusion?
Skudlark-A	Google	0	Managing risk in a new telecommunications service
	& SSCI		development process through a scenario planning approach
Sung-N	Google	1	Optional telephone subscription scheme: a unique
	& SSCI		experiment in Korea
Sung-N	SSCI	7	Substitution between mobile and fixed telephones in Korea
Yang-DH	Google	0	Fixed AND Mobile Service Convergence AND
			Reconfiguration OF Telecommunications Value Chains
Yang-DH	Google	1	Mergers and acquisitions in the telecommunications
-	& SSCI		industry: Myths and reality
Yoo-HO	Google	0	Predictors of downsizing in the US local telephone industry
	& SSCI		
Yoon-CH	SSCI	0	Determinants of subscriber churn and customer loyalty in
			the Korean mobile telephony Market
Yoon-CH	Google	0	Transformation of the Telecommunications Industry in
	_		North Korea
Yoon-MG	SSCI	0	On selecting a technology evolution path for broadband
			access networks
Yoon-SH	SSCI	0	On selecting a technology evolution path for broadband
			access networks
Yoo-SH	Google	2	Value-focused thinking about strategic management of radio
	& SSCI		spectrum for mobile communications in Korea

Name of Author	Source	#Citations	Title of Paper
Yoo-SH	Google	1	Does information technology contribute to economic growth
	-		in developing countries? A cross-country
Yu-PI	SSCI	1	Influential factors in the choice of technology acquisition
			mode: an empirical analysis of small and medium size firms
			in the Korean telecommunication industry
			Sri Lanka
Dharmawardena-S	Google	0	Sri Lanka's experience in interconnection and liberalization
	-		of international telecom segment 2
Jayasinghe-S	Google	2	Regulatory Impact Assessment in Sri Lanka: The Bridges
	-		that have to be Crossed'
Knight John-M	Google	0	The Next Step for Telecom Regulation: ICT Convergence
	-		Regulation or Multisector Utilities Regulation
Knight John-M	Google	2	Regulatory Impact Assessment in Sri Lanka: The Bridges
C C	C		that have to be Crossed'
Perumal-A	Google	2	Regulatory Impact Assessment in Sri Lanka: The Bridges
	C		that have to be Crossed'
Salih-R	Google	3	Designing Next Generation Telecom Regulation: ICT
	C		Convergence or Multisector Utility
Samarajiva-R	Google	1	Rationales for Convergence and Multisector Regulation
Samarajiva-R	Google	5	Multisector Utility Regulation
Samarajiva-R	Google	0	Distributional Impact of Privatization: The Sri Lankan
5	C		Experience
Samarajiva-R	Google	0	Getting from dysfunctional government to e(ffective)
			government: mapping a path in Sri Lanka
Samaraiiva-R	Google	0	Sri Lanka's experience in interconnection and liberalization
~	8	-	of international telecom segment 2
Wasantha-PPA	Google	0	The Next Step for Telecom Regulation: ICT Convergence
	8	-	Regulation or Multisector Utilities Regulation
			Taiwan
Chen-SJ	Google	3	Cultural differences in E-commerce: A comparison between
		-	the U. S. and China.
Chen-TJ	Google	1	Globalization of E-Commerce: Environment and Policy of
	8		Taiwan
Chen-YJ	Google	9	Dimensions of transactional distance in the world wide web
	& SSCI	-	learning environment: a factor analysis
CHOU-Y	Google	2	The Paradoxical Impact of Asymmetric Regulation in
	U		Taiwan's Telecommunications Industry:
Chu-JJ	Google	0	In response to globalization: what we can learn from the
	& SSCI		Telstra experience
Lai-CS	Google	0	An analysis of the development strategy of the
			telecommunications industry in Taiwan.
Liang-CC	Google	1	Guidelines for distance education: a case study in Taiwan
	& SSCI		
Lin-LS	Google	0	Demands estimation of new telecommunication services in
			fuzzy environment.
LIU-KC	Google	2	The Paradoxical Impact of Asymmetric Regulation in
			Taiwan's Telecommunications Industry:
Shvur-CC	Google	0	SDHTOOL: Planning Survivable and Cost-Effective SDH
J			Networks at Chunghwa Telecom
Tsai-KH	Google	0	Factors in Taiwanese Firms' Decisions to Adopt Electronic
	00081	-	Commerce: An Empirical Study
Wang-JC	Google	0	Factors in Taiwanese Firms' Decisions to Adopt Electronic
		-	Commerce: An Empirical Study
Wen-UP	Google	0	SDHTOOL: Planning Survivable and Cost-Effective SDH
	000510		Networks at Chunghwa Telecom
Yang-C	Google	0	An analysis of the development strategy of the
		-	telecommunications industry in Taiwan
1			······································

Name of Author	Source	#Citations	Title of Paper
Yen-RHM	Google	0	An analysis of the development strategy of the
			telecommunications industry in Taiwan.
			Thailand
Krairit-D	Google	0	Liberalizing Development: Effects of Telecommunication
			Liberalization in Thailand and the
Ratananarumitsorn-	Google	1	Competition and Regulatory Reform in the Thai
Т			Telecommunication Markets
Sirikit-A	Google	0	Service quality in the Thai telecommunication industry: a
			tool for achieving a sustainable
Tangkitvanich-S	Google	1	Competition and Regulatory Reform in the Thai
			Telecommunication Markets