

磁気테이프型 二次情報파일 解題

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오늘날 世界의 많은 情報서비스機關(情報센터, 研究所, 企業체의 技術情報室, 圖書館 등)에서는 既成品 磁気테이프를 購入, 各 機關에 알맞는 프로그램을 開發하여 電子計算機에 의한 情報檢索 서비스를 활발히 실시하고 있다.

磁気테이프에 의한 情報の 自動檢索은 1945年 V. Bush가 着想한 이래, 1950年代 Western Reserve大學의 J. W. Perry와 A. Kent 등이 實驗을 행하였다. 그 후 急増하는 情報에 對處하기 위하여 世界여러 나라에서는 情報檢索의 電子計算化를 시도한 結果 키워드處理技術, 디소어러스 등의 開發로 可能하게 되었고 또한 電子計算機의 普及에 따라 1964年頃에는 美國의 Information for Industry社에서 美國의 化學特許

유니덱스索引 그리고 Chemical Abstracts Services에서는 Chemical Titles의 磁気테이프를 처음으로 市販한 후 1970년에는 科學技術分野의 것이 40種 이상되었고 1973년에는 世界에서 백 수십종이 生産되고 있으며 그중 科學技術分野의 것이 72種에 이르고 있다.

이와 같은 데이터 베이스를 利用하여 SDI 또는 遡及調査를 하기 위하여는 프로그램 開發, 費用 등 여러가지 問題點을 지니고 있으나, 原理적으로 많은 利點을 갖고 있기 때문에 데이터 베이스의 生産 및 利用者는 날로 增加하고 있다.

本稿에서는 上記 72種을 一覽表로 紹介하기로 한다.

테이프 名稱	主題分野	發行 機關	収録 情報	収録年	發行 頻度	収録件數 (年)	價格
Transdex	科學技術	CCM Information Corporation	雜誌, 레포오트, 뉴스, 豫稿集	1970~	M	30,000	\$ 2,000
Pandex Current Index to Scientific and Technical Literature	"	"	雜誌	1970~	W	250,000	\$ 4,000
P. A. S. C. A. L. NNN (Programme Appliqué la Selection et à la Compilation Auto Automatiques de la Litterature)	"	Centre National de la Recherche Scientifique Centre du Documentation du C. N. R. S.	雜誌, 레포오트, 特許, 單行本, 豫稿集, 學位論文	1972~	M	500,000	
ISI Source Index Magnetic Tapes	"	Institute for Scientific Information	雜誌	1964~	W	374,000	\$ 8,000
ISI Source & Citation Magnetic Tapes	"	"	雜誌	1964~	W	374,000	\$ 20,000
リコーパテントファイル, バック・ナンバー用 磁気テープ	"	株式會社リコ	日本特許	1965~ 1969		총 290,000	¥ 4,800,000

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リコーパテントファイル用 磁氣テープ	科學技術	株式會社リコー	日本特許	1970~	M	85,000	¥ 3,600,000
MARC Distribution Service (Books)	"	Library of Congress Processing Department	레포오트, 單行本, 豫稿集, 學位論文	1968~	W	70,000	\$ 1,000
Government Reports Announcement (GRA)	"	National Technical Information Service (NTIS)	雜誌, 레포오트	1964~	SM	56,000	\$ 2,375
JICST 文献檢索 磁氣テープ (漢字モード)	"	日本科學技術情報センター	雜誌, 레포오트, 會議論文	1972~	8分野 로區分 BW, S M, M등	360,000	¥ 4,268,000
JICST 文献檢索磁氣テープ (英字カナ文字モード)	"	"	"	"	"	"	¥ 1,205,000
Current Programs	"	World Meetings Information Center, Inc.	豫稿集	1972~	M	120,000	
INSPEC	物理, 電子工學, 制御工學	INSPEC The Institution of Electrical Engineers	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1969~	3分野 로區分 BW, M	150,000	\$ 3,400 ~6,000
D. A. T. A. Book File	電子工學	D. A. T. A. Division of Computing & Software, Inc.	業體發表데이터	過去10年	SA	20,000	\$ 2,500 ~5,000
EMA Tape (Electronics Market Abstracts Tape)	"	Predicasts, Inc. University Circle Research Center	雜誌, 레포오트, 豫稿集, 뉴스	1972~	M	8,000	
IEEE REFLECS (Retrieval from the Literature on Electronics and Computer Sciences)	電氣工學 電子工學 應用物理	Institute of Electrical & Electronics Engineers (IEEE)	雜誌, 政府레포오트, 特許, 單行本, 學位論文	1970~	M	65,000	\$ 4,900
SPIN (Searchable Physics Information Notices)	物理學 天文學	American Institute of Physics	雜誌	1970~	M	30,000	\$ 2,500
Mathematics of Computation, Volumes 1~23	數學	American Mathematical Society	雜誌	1943~ 1969	全1卷	5,000	\$ 500
Mathematical Reviews 5-Year Index, 1965-69	"	"	"	1965~ 1969		80,000	\$ 8,000
Mathematical Title Service/Index of Mathematical Papers	"	"	雜誌, 單行本, 豫稿集, 學位論文	1970~	SA	10,000~ 12,000	\$ 600
Mathematical Title Service, monthly Coverage	"	American Mathematical Society	"	1972~	M	10,000~ 12,000	\$ 1,200
Crystallographic Data Centre Bibliographic File	結晶學	Crystallographic Data Centre	雜誌, 豫稿集	1935~		2,000	\$ 120
COMPENDEX Computerized Engineering Index)	工學	Engineering Index Inc.	雜誌, 레포오트, 豫稿集	1969~	M	85,000	\$ 6,500

Mech En	機械工學	Royal Institute of Technology, Library	雜誌	1968~	SM	40,000	
Wood	木材工學	"	"	1970~	M	12,000	
GEO-REF (Geological Reference File)	地球科學	American Geological Institute	雜誌, 레포오트, 單行本, 學位論文	1966~	M	40,000	\$ 4,800
METADEX (Metal Abstracts Index)	金屬工學	American Society for Metals	"	1966~	M	25,000	\$ 1,250
Rock Mechanics Information Services	岩石力學	Rock Mechanics Information Services Imperial College of Science and Technology Royal School of Mines	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集, 캐탈로그, 뉴스		A	2,000	\$ 1,000
Nuclear Science Abstracts	原子力工學	Atomic Energy Commission, Technical Information Center	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1967~	SM	65,000	\$ 1,845
International Nuclear Information System (INIS)	"	INIS Section, International Atomic Energy Agency	"	1970~	M	45,000	
CA Integrated Subject File	化學化學工業	Chemical Abstracts Service	"	1969~	SA	360,000	\$ 6,000
Patent Concordance in Computer Readable Form	"	"	特許	1969~	SA	47,000	\$ 400
CA Condensates	"	"	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1968~	W	360,000	\$ 4,400
Chemical Titles	"	"	雜誌	1962~	BW	112,000	\$ 1,700
Polymer Science & Technology (POST)	"	"	雜誌, 레포오트, 特許	1965~	BW	34,000	\$ 2,500
Chemical-Biological Activities (CBAC)	"	"	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1965~	BW	34,000	\$ 2,500
Index to API Abstracts of Refining Literature	石油工業	Central Abstracting and Indexing Service American Petroleum Institute	"	1964~	M	15,000	\$ 5,500 ~ 23,000
Index to API Abstracts of Refining Patents	"	"	特許	1964~	M	8,000	\$ 3,000 ~ 21,500
IPA Information System (International Pharmaceutical Abstracts)	藥學	American Society of Hospital Pharmacists	雜誌, 레포오트, 特許	1970~		6,000	\$ 550 ~ 1,500
BA Previews	生物學	Biosciences Information Service of Biological Abstracts (BIOSIS)	雜誌, 레포오트, 單行本, 豫稿集, 學位論文	1969~	SM	240,000	\$ 5,000

Abstracts on Health Effects on Health Effects of Environmental Pollutants (HEEP)	環境公害	Bioscience Information Service of Biological Abstracts and National Library of Medicine	"	1972~	M	12,000	\$ 500
PESTDOC	農藥	Derwent Publications Ltd.	"	1968~	年45回	9,000	\$ 3,425
RINGDOC	藥學	"	"	1964~	年40回	40,000	\$ 11,750
Central Patent Index Sec A: PLASDOC	플라스틱	"	特許	1966~	Q	60,000	年225(會費別)
Sec B: FARMDOC	藥學	"	"	1963~	Q	40,000	"
Sec D: CHEMDOC	化學	"	"	1967~	Q	"	"
Comprehensive Data Base of Patents	藥學, 化學工業, 石油工業	IFI/Plenum Data Company	"	1950~	Q	25,000	\$ 35,000
Petroleum Abstracts Master Record Tapes	石油工業	Information Services Department, the University of Tulsa	雜誌, 레포오트, 特許, 豫稿集	1965~	年3回	16,000	\$ 2,000 ~20,000
Iowa Drug Information Service (I. D. I. S)	藥學	Iowa Drug Information Service, College of Pharmacy, University of Iowa	雜誌	1966~	M	6,000	\$ 900
Abstract Bulletin of the Institute of Paper Chemistry	紙, 펄프工業	The Institute of Paper Chemistry	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1966~	M	12,000	\$ 2,000
Index Chemicus Registry System (ICRS)	化學	Institute for Scientific Information	雜誌	1966~	M	15,000	\$ 9,500
Titus	纖維工業	Institute Textile de France (ITF)	雜誌, 레포오트, 特許, 單行本, 學位論文, 카탈로그, 豫稿集	1969~	M	30,000	\$ 7,500
Textile Technology Digest Key-term Index	纖維工業	Institute of Textile Technology	雜誌, 레포오트, 特許, 單行本, 豫稿集, 學位論文	1966~	M	12,000	\$ 900
Food Science & Technology Abstracts	食品工業	International Food Information Service	雜誌, 特許, 單行本, 學位論文	1969~	M	16,500	\$ 1,750
CPI Magnetic Tape File	化學, 化學工業	International Systems Design, Inc.	雜誌, 레포오트, 豫稿集, 카탈로그	1968~	M	50,000	\$ 10,000
Mass Spectrometry Bulletin	質量分析	Mass Spectrometry Bulletin	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1966~	M	7,500	\$ 735
Computer-Based Nuclear Magnetic Resonance Literature Retrieval System	核磁氣共鳴	National Inst. of Arthritis & Metabolic Diseases, National Institute of Health	雜誌, 特許, 單行本, 豫稿集, 學位論文	1964~ 1971	A	2,500	\$ 150

CMA Tape (Chemical Market Abstracts Tape)	化學工業	Predicasts, Inc. University Circle Research Center	"	1972~	M	8,000	\$ 500
Specialized Textile Information Service	纖維工業	Shirley Institute	雜誌, 레포오트, 特許, 單行本, 學位論文, 豫稿集	1970~	SM	8,000	\$ 960
TOXICON (Toxicology Information Conversion On-line Network)	毒物學	Toxicology Information Program, National Library of Medicine	雜誌	1930~		40,000~ 60,000	
International Tree Disease Register	植物病理學	U. S. Forest Service			M		\$ 540
Patent Office Mechanized Search System	有機金屬化合物	U. S. Patent Office	特許	1960~	Ir	11,000	
Agricultural Economics (via CAIN)	農業經濟	American Agricultural Economics Documentation Center	雜許	1971~	BM	1,200	\$ 540
VETDOC	獸醫學	Derwent Publications Ltd.	雜誌, 레포오트, 單行本, 學位論文, 豫稿集	1968~	年25回	5,000	\$ 2,275 (會費別)
Central Patent Index Sec C: AGDO C	農學	"	特許	1965~	Q	30,000	"
Bibliography of Agriculture	"	National Agricultural Library	雜誌, 레포오트, 單行本, 豫稿集, 學位論文	1970~	M	120,000	\$ 1,000
National Agricultural Library CAIN Data Base	"	"	雜誌, 單行本, 豫稿集, 學位論文	1970~	M	120,000	\$ 540
Excerpta Medica	醫學	Excerpta Medica Foundation	雜誌, 레포오트, 單行本, 豫稿集, 學位論文	1968~	W	250,000	
S. A. B. I. R.	醫學(암)	Institut Gustave-Roussy	"	1967~	M	20,000	\$ 1,000
MEDLARS	醫學	National Library of Medicine (NLM)	雜誌, 會議論文	1964~	M	240,000	\$ 30,000
Epilepsy Abstracts	醫學	Section on Epilepsy National Institute of Neurological Diseases and Stroke	雜誌, 레포오트, 單行本, 豫稿集, 學位論文	1972~	M	8,000	
F & S Index Tape	經營工學	Predicasts, Inc. University Circle Research Center	雜誌, 레포오트, 豫稿集, 우스	1970~	M	200,000	\$ 1,500