

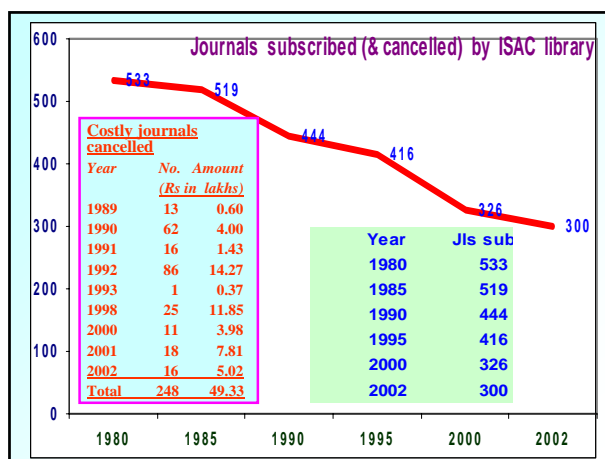
E-journals : resource sharing and consortia approach

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Factors considered

- ✓ Cost
- ✓ Use
- ✓ User opinion
- ✓ Alternate ways (ILL & DDS)
- ✓ TOC services
- ✓ Availability in cooperating libraries
- ✓ E-version
- ✓ Exchange

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Cost vs. use of journals

Cell 1 : Low cost and low use journals:
A library does not mind having such journals as long as they are not creating an abnormal maintenance cost. Alternatively, as long as they are not to be kept in the library for a long time, they are desirable

Cell 4: High cost and low use journals :
These need to be carefully considered for cancellation. Strong user opinion and non-economic considerations need to be given attention

| | Low use | High use |
|-----------|---------|----------|
| Low cost | 1 | 4 |
| High cost | 2 | 3 |

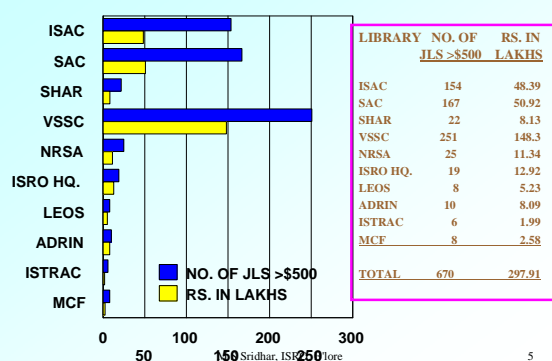
Cell 2: Low cost and high use journals : These are the ideal journals from a CBA angle for any library

Cell 3: High cost and high use journals : These need a separate ranking to see whether or not some with a very high cost per use can be cancelled and xerox copies of needed articles acquired and whether or not the journal can be shared with local cooperating libraries

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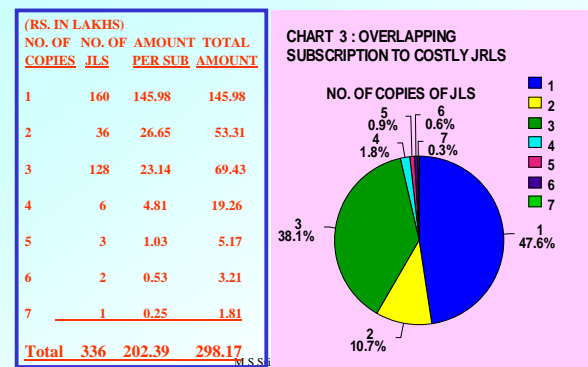
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Costly journals subscribed by ISRO libraries



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Overlapping subscriptions to costly journals



Consortia Approach

- New marketing strategy of publishers; uses 'leveraged resources' & 'distance information'
- Cost implications and organisational readiness (user acceptance) are important; No cost saving for existing subscriptions/ subscribers
- Tacit acceptance of current model "publishers won't accept less, libraries can't spend more"; New sustainable model required
- Publishers want current level of revenue flow to be maintained and are looking for new market; customer defined profile not accepted
- Consortia - different needs and difficulties of negotiating with group, more flexibility needed for libraries; Proportional distribution of savings/ benefits to consortia participant
- Price is same but incentives like additional databases, broader coverage of journals, links, TOC service, etc., are offered
- Bundling and unbundling; very few exclusive titles and large number overlap (desirable titles bundled with one of little value) & current usefulness of other titles in doubt; customised contents (of specific documents) not possible
- 'Journal war' between scientists and commercial publishers
- High margin (35%) of some publishers
- Low cost of production and distribution of e-journals

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e-journals

E-journals delivered individually or in bundles, directly or through intermediaries mostly online via web but also available on CD, by e-mail and as text incorporated into databases

1. extent of subscription by individuals
2. extent of use under pay per use scheme
3. on-screen use without print
4. reader s/w - supporting multiple formats
5. ease of view; downloading
6. with or without print version; need for print
7. pre-print circulation
8. subscription based on no. of relevant articles appeared and / or used
9. management reports/ use statistics
10. who archives them? if publisher vanishes? back volumes on CD
11. implications on resource sharing network delays
12. software/ server frustrations
14. customer defined profile for aggregator; Swets Blackwell; EBSCO; Inf Quest; SwetsNet; OCLC; Gale; Bell & Howell
15. 3 m DOIs in use giving live cross-references in online journals

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journal war

- Reed Elsevier (Anglo-Dutch co.)**
1. bought Harcourt General (USA) for \$ 4.5 b
 2. worth \$ 10 b (specialises in science, legal, education & business)
 3. controls 20% of science-journal market (1200+500 titles)
 4. has 35% margin (others 20%)
- Scientists**
1. want free/ wider access to their papers
 2. against steep increase in price
 3. want cutting publishing delays
- ARL**
1. average price increase of academic journals between 1986 & 1999 is 207%
 2. no. of journals bought is reduced by 6%
 3. *Brain Resarch* of Reed Elsevier cost \$ 17,444
- Public Library of Science (a group)**
1. boycott publisher who does not relinquish rights to bio-medical published papers after six months
 2. liberate research from the gatekeeping publishers by posting papers online from the start
- ACS & a group of scientists**
1. launched *Organic Letters* (\$2438) as a rival to *Tetrahedron Letters* (\$9036) of Reed Elsevier
 2. 500 manuscripts in 1st 100 days
 3. Publishers are ready to discuss a compromise

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A Delphi survey on future of e-journals

(45 scientists, publishers, librarians, journal agents and consultants about (1) reading (2) role as scholarly communication (3) sceinaros for future (4) serials crisis/ journal war (5) archiving (6) pricing & access models)

FINDINGS:

AGREEMENTS

Other publication channels will be more effective in certain areas

Peer-review & quality control are most important contributions of e-journals

Scholarly communication status will fall noticeably

e-journals represent transient medium

e-journals alone will not solve the serials crisis / journal war

Holding printed versions of e-journals as archival copies will be discontinued

Pay-per-use access will become more important

DIVERGENCE

Desirability of preprint archives

Look of future e-journal

Responsibility for archiving

Consequence of pay-per-use access

Benefits of consortial licence

agreements

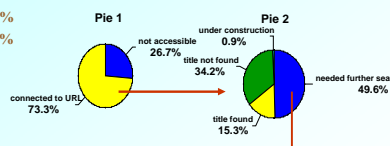
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A case of e-journals in Taiwan

NOT ENOUGH TITLES: out of 2700 titles in the Index to Chinese periodical literature, only 280 had web sites and less than 1% provided full text journals; Chinese periodicals directory (available online) lists 892 e-journals. But a test revealed that

| | | |
|-----------------------------------|-----|-------|
| not accessible | 238 | 26.7% |
| connected to URL | 654 | 73.3% |
| - needed further search to locate | 343 | |
| - title found | 106 | |
| - title not found | 237 | |
| - under construction | 6 | |

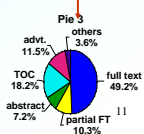


ACCESSIBILITY: access to over 50% of the titles could not be achieved in both tests

INCOMPLETENESS: out of 344 accessed, only 24% provided complete contents of latest issue; some were 6 issues behind schedule; back issues were only for recent 3 years

| | | | | | | | |
|-----------|------------|----------|-----|-------|--------|-------|-----|
| full text | Partial FT | abstract | TOC | advt. | others | total | |
| titles | 205 | 43 | 30 | 76 | 48 | 15 | 417 |
| % | 49.2 | 10.3 | 7.2 | 18.2 | 11.5 | 3.6 | 100 |

less than 40% were covered by indexing journals



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A proposal for cooperative acquisition of IEEE journals (10/10/94 - BSLG)

| SL NO | TITLE (IEEE TR. ON...) | ISSUES/ YR. | 1994 SUBN. PRICE IN \$ + AIRFREIGHT | PRORATA (PACKAGE) PRICE IN \$ | SAVING IN \$ |
|-------|--------------------------------|-------------|-------------------------------------|-------------------------------|--------------|
| 1. | Biomedical Engineering | 12 | 285+66 =351 | 204 | 147 |
| 2. | Broadcasting | 4 | 50+33 = 83 | 48 | 35 |
| 3. | Education | 4 | 98+35 =133 | 77 | 56 |
| 4. | Medicine & Biology | 5 | 105+36 =141 | 81 | 60 |
| 5. | Medical Imaging | 4 | 150+39 =189 | 109 | 80 |
| 6. | Nuclear Science | 6 | 170+93 =263 | 152 | 112 |
| 7. | Journal of Oceanic Engineering | 4 | 115+45 =160 | 92 | 68 |
| 8. | Speech & Audio Processing | 4 | 122+45 =167 | 96 | 71 |
| 9. | Professional communication | 4 | 85+35 =120 | 69 | 51 |

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Total \$ 680 (1994)

Consortia/ multiple copy price for selected costly journals

| TITLE | NO. OF LIBRARIES | PRICE | CONSORTIA PRICE/ DISCOUNT | CONSORTIA SAVING (IN RS.) |
|--|------------------|-------------|---------------------------|---------------------------|
| 1. MATERIALS SCIENCE & TECHNOLOGY | 2 | \$ 1429 | \$ 525 | 45200 |
| 2. SPACE TECHNOLOGY / LISTER SCIENCE | 3 | \$ 800 | \$ 760 | 6000 |
| 3. IEEE ALL SOCIETY PERIODICALS (106 TITLES) | 3 | Rs. 1684750 | 2.5% | 126356 |
| 4. IEEE CSLSP PACKAGE (17 TITLES) | 1 | Rs. 503500 | 2.5% | 12587 |
| 5. OTHER IEEE JOURNALS | 3 | | 2.5% | 37000 |
| 6. INTNL. J.L. OF GEOGRAPHICAL INF. SC. | 4 | Rs.37748 | 3% | 4530 |
| 7. INTNL. J.L. OF REMOTE SENSING | 4 | Rs.127836 | 3% | 15340 |
| Total | | | | 2.45 lakhs |

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Costly journals having marginal additional cost for online access

| Title | No. of Libraries | Price | | | Saving in Rs. |
|---------------------------------|------------------|---------|------------|--------|--------------------------------|
| | | Print | Electronic | P+E | |
| 1. AIAA JOURNAL | 2 | \$ 1075 | \$1075 | \$1235 | 32000 |
| 1. ELECTRONICS LETTERS | 2 | P 792 | P 792 | P 876 | 4200 |
| 2. IEE PROCEEDINGS (12 PARTS) | 3 | P1920 | P 1920 | P2016 | 127600 |
| 3. INTNL. J.L. OF SATELLITE COM | 3 | \$ 1620 | \$1620 | \$1701 | 8100 |
| 4. JOURNAL OF CLIMATE | 2 | \$ 446 | \$ 349 | \$ 469 | 1150 |
| 5. J.L OF GUID, CONTROL & DYN | 6 | \$ 595 | \$ 595 | \$ 685 | 2500 |
| 6. J.L OF PROPULSION AND POWER | 3 | \$ 635 | \$ 635 | \$ 730 | 9500 |
| 7. J.L OF SPACECRAFT & ROCKETS | 6 | \$ 555 | \$ 555 | \$ 640 | 21250 |
| 8. MONTHLY WEATHER REVIEW | 2 | \$ 420 | \$ 338 | \$ 443 | 1150 |
| 9. QUALITY & REL ENGINEERING | 2 | \$1380 | \$ 1380 | \$1449 | 3450 |
| 10. SOFTWARE: PRACTICE & EXP | 2 | \$2380 | \$ 2380 | \$2449 | 3450 |
| Total | | | | | 2.34 lakhs¹⁴ |

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2.34 lakhs¹⁴

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E-journals subscribed by ISAC library

Can be accessed from any internet terminal of ISAC: Use bookmarks kept on library terminal

Taylor & Francis Journals

1. Heat Transfer Engineering
2. Numerical Heat Transfer 'A': Fundamentals
3. Numerical Heat Transfer 'B': Applications

University of Chicago Press Journals

1. Astronomical Journal
2. Astrophysical Journal
3. Astrophysical Journal Letters
4. Astrophysical Journal supplement
5. Publications of the Astronomical Society of the Pacific

IEE proceedings

1. Circuits, Devices And Systems
2. Communications
3. Computers And Digital Techniques
4. Control Theory And Applications
5. Electric Power Applications
6. Generation, Transmission And Distribution
7. Microwaves, Antennas And Propagation
8. Optoelectronics
9. Radar, Sonar And Navigation
10. Science, Measurement And Technology
11. Software
12. Vision, Image And Signal Processing

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Free e-journals

Use bookmarks kept on internet terminal to access 57 free e-journals. The same in print cost 2.5 lakh per annum.

About the Author

Dr. M.S.Sridhar is a post graduate in mathematics and business management and a doctorate in library and information science. He is in the profession for last 35 years. Since 1978 he is heading the Library and Documentation Division of ISRO Satellite Centre, Bangalore. Earlier he has worked in the libraries of National Aeronautical Laboratory (Bangalore), Indian Institute of Management (Bangalore) and University of Mysore. Dr. Sridhar has published four books ('User research: a review of information-behaviour studies in science and technology', 'Problems of collection development in special libraries', 'Information behaviour of scientists and engineers' and 'Use and user research with twenty case studies') and 74 research papers, written 19 course material for BLIS and MLIS, presented over 22 papers in conferences and seminars, and contributed 5 chapters to books. **E-mail:** sridharmirle@yahoo.com, mirle.sridhar@gmail.com, sridhar@isac.gov.in ; **Phone:** 91-80-25084451; **Fax:** 91-80-25084475.



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