

**CONSORTIUM OF ACADEMIC & RESEARCH LIBRARIES IN ILLINOIS**

**PROPOSAL COVER SHEET**

**FY 2008**

PROJECT: Computer Science Partnership: New Media, New Networks, New Technology

AMOUNT OF MONEY REQUESTED: \$16,500

	<u>Before March 1, 2007</u>	<u>After March 1, 2007</u>
HOST LIBRARY:	North Central College	Illinois State University
HOST LIBRARY INFORMATION:		
Contact Person:	Ted Schwitzner	Ted Schwitzner
Address:	Oesterle Library 320 E. School St.	Milner Library Campus Box 8900
City:	Naperville	Normal
State:	IL	IL
Zip:	60540	61790-8900
Phone:	630-637-5709	309-438-3449
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Director of Host Library:	Carolyn A. Sheehy	Cheryl Asper Elzy

**PARTICIPATING LIBRARIES, CONTACT PERSONS, & FULL CONTACT INFORMATION:**

(Include the **name, title, full U.S. Postal address, phone number, and e-mail address** of a contact person at each participating library.)

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## Introduction

Computer science is a fast moving discipline. Works on specific applications and operating systems only remain relevant during their respective lifetimes. However, while Moore's Law predicts that computing power should double every two years, the complexity of software also increases though the efficiency of that software improves at a much slower rate. Thus, today's new technologies, techniques, networks and media, those areas that represent current "state of the art", also represent the future foundation of computer technology. This collection partnership will focus on collecting resources that highlight the new media, new networks, and new technology that will be considered as fundamental works for the current and next generations of computing, as well works that analyze the impact of current and future technological change on culture. Examples from this concentration include works on knowledge management and data mining, voice over IP, applied mathematics, and computer security and forensics.

Now is a critical time to establish foundational collections throughout the fields of computer science. A 2005 report jointly produced by the Association for Computing Machinery (ACM), the Association for Information Systems (AIS), and the Computer Society of the Institute for Electrical and Electronic Engineers (IEEE-CS), recognized that since the information technology boom of the 1990s, computing had evolved to include several distinct, yet interrelated disciplines. These disciplines, enumerated as computer engineering, computer science, software engineering, information systems and information technology, require that today's computing student be versed in both theory and practice, and that the student also understand the interrelationships among the disciplines to provide the best service to his or her organization.<sup>1</sup>

## Who Will Benefit?

As a partnership pursuing technology resources that correspond not only to current curricula but also seeks to build a core collection usable for future curricular demands, this partnership resonates strongly with the idea of "Access and Collections That Keep Pace with Curriculum and Technology." Several of the partnership's participants offer graduate and undergraduate programs in Computer Science, and most of these continue to see growth in enrollments. In addition to serving the research and study needs of local students, this partnership will benefit library users throughout state, particularly students and professors in Computer Science and Management Information Systems programs at colleges and universities throughout the state.

Further benefits will be achieved through serving the information needs of the public and area businesses. As many of the participating members of this grant are near and serve the "I-88 Technology Corridor", technology businesses and their employees will benefit from having access to core resources in technology topics. Additionally, through interlibrary loan and existing reciprocal borrowing relationships, public library users will gain access to valuable resources on technologies that will shape culture and the economy.

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<sup>1</sup> Joint Task Force for Computing Curricula 2005. *Computing Curricula: The Overview Report 2005*. New York: Association for Computing Machinery and IEEE Computer Society, 2006. [http://www.acm.org/education/curric\\_vols/CC2005-March06Final.pdf](http://www.acm.org/education/curric_vols/CC2005-March06Final.pdf). Accessed 22 February 2007.

## Cost and Funding Plan

Each participating library has provided a narrative that will guide selection and purchase decisions for each institution. Each participating library has specified the format focus will be on books. A summary of institutional focus areas and award amounts follows below:

<b>Institution &amp; Bibliographer</b>	<b>Subject</b>	<b>Amount</b>
Chicago State University Sharon Hu	Digitization; E-Learning & Instruction Technology, Telecommunications & Networking	\$2,500
Illinois Institute of Technology --Galvin Library, Chicago Carol DeBiak	Computer Science Mathematics, Algorithms, and Computer Algorithms	\$3,000
Illinois Institute of Technology --Biegler Library, Wheaton Nancy Weichert	Internet Telephony and Computer Crimes Investigation	\$2,500
Illinois State University Sarah C. Williams	Information Assurance and Security	\$2,500
Joliet Junior College Susan Prokopeak	Graphics in Computer Gaming and Online Environments	\$2,000
North Central College Carolyn Sheehy	Knowledge Management and Interactive Media	\$4,000
	<b>TOTAL</b>	<b>\$16,500</b>

Participants will cover the costs of processing, equipment for housing, cataloging, and maintenance of materials purchased with CARLI Award funds.

Participants will encumber or expend at least 33% of received funds by December 31, 2007; 67% by March 31, 2008; and 100% by June 30, 2008.

Participants will include a statement of ongoing support and commitment to continued purchasing in selected subject areas following the completion of this award.

## Expandability and Adaptability of the Proposal

This project may be expanded in the future through coverage of aspects of computer technology not addressed in this first year, such as artificial intelligence, human-computer interaction, informatics, and quantum computing. Future projects could opt to include development of a widely accessible standards collection, either in print or electronic formats, as well as group purchases of e-books, such as from *NetLibrary*, Wiley, Springer, O'Reilly, and other providers of sci-tech publications. Another exciting possibility would be to explore the collection development possibilities of a computer science library within *Second Life* (<http://www.secondlife.org>).

Additionally, this proposal group consists largely of institutions in the northern part of the state, with a concentration in or near the "I-88 Technology Corridor". While this provides an immediate regional benefit, expansion to include institutions from Central and Southern Illinois

would enhance the awareness of this collection effort and would allow the addition of increased specializations.

Further adaptations of this proposal could come through inclusion of additional interdisciplinary elements, particularly the roles and outcomes of computing in other fields not inherently oriented towards covering computing. These fields could include the following: art and film, particularly concerning computer animation and rendering of landscapes and movement; biomechanics, physical therapy and sports medicine, where motion capture techniques developed for animation have helped improve the understanding of the human body; and health sciences in general, which involves imaging technology in many different ways.

## **Plan of Operation**

Each library will incorporate the use of selection and collection analysis tools whenever possible, such as, but not limited to OCLC's *WorldCat Collection Analysis, Resources for College Libraries*, and Bowker's *Book Analysis System*.

Each library will share its list of titles with other participants to prevent duplication of selections. These selections will be posted on a web site for the partnership for use by libraries and patrons. Additionally, partners will minimize duplication of library holdings within one-hour's drive of another CARLI member library. If a selected resource is regarded as essential by an academic review source, and holdings are limited in the state, duplication between partners would be acceptable.

Each library will fully catalog purchased materials in OCLC *WorldCat* and in local catalogs. Holdings will include a note indicating that the item was purchased for this partnership and should include a link to the group web site for location of partnership purchases at other libraries. All purchased materials will be cataloged and shelf-ready within six (6) months of receipt. All purchased materials will be available for circulation by direct borrowing and interlibrary loan to all CARLI libraries and valid statewide borrowers.

Each library will publicize the receipt of the award and the availability of new materials to their local academic and public communities. Each library should also share the information about selections at partner libraries to emphasize that the collection effort is happening at a state-wide level.

The partnership coordinator will submit an article on the partnership's focus and selections to the *ILA Reporter* and to the regional library systems following the conclusion of purchasing. In addition to promoting the selections made and the enhancement of the state-wide collection, broad promotion will serve to better advertise how Illinois academic libraries serve broader communities and complement other library collections in the state.

All purchased materials will be available for circulation by direct borrowing and interlibrary loan to all CARLI libraries and valid statewide borrowers. Each partner institution agrees to serve as the last copy repository for materials related to its selected area.

## Evaluation and Reporting on Progress

Each participant will submit periodic reports to the project coordinator outlining progress in selection and purchasing. In addition to the encumbrance deadlines specified above, participants will report on challenges and successes on the following time table.

### **Reporting deadlines:**

June 30, 2008	Expenditure of funds; report on status to project coordinator.
July 31, 2008	Report on success of selection, difficulties in subject area, response to initial publicity; due to project coordinator.
Aug. 31, 2008	Project summation report, prepared by project coordinator, due to CARLI.
Dec. 31, 2008	Project participants report on follow-up selections and on-going response to publicity and availability of project resources.
Mar. 31, 2009	Project participants begin compiling final analysis of project successes and difficulties.
May 31, 2009	Participants submit final reports to project coordinator.
June 30, 2009	Project coordinator submits combined final report to CARLI

Participants will measure the effectiveness of selection using circulation statistics, including on-campus circulation, use in local course reserves, and use by interlibrary loan and reciprocal borrowers. Effectiveness will also be provided using analyses of collection strengths, measured at the beginning and end of the collection award.

Additionally, participants will share publicity on resources collected and news on the public response to collection efforts. Additional reports and postings on the web site will highlight purchases made in ongoing support of the collection areas. The project coordinator will also report on hits to the partnership web site as a means of acknowledging external recognition of the cooperative effort.

**Institution:** Chicago State University, Academic Library  
**Contact Bibliographer:** Sharon Hu  
**Collection Focus:** Digitization, E-Learning and Instruction Technology, Networking and Telecommunications  
**Amount Requested:** \$2,500

### Rationale

Since the fields of networking and telecommunication, digitization especially E-Learning and instruction technologies, have been rapidly developing, the publications on these fields keep updating along with the technology changes. These publications are universally used and will potentially benefit many CARLI members since the related teaching courses (especially distance learning), research, and applications are commonly created, developed and used. However, there is not enough funding to develop the collections in these fields. The statistical results of searching for the target subjects in *I-Share* and *WorldCat* showed the obvious shortage of collections on these fields, not only at the CSU Library, but also a shortage among CARLI libraries, and the existing collections are out of date. CSU Library would like to take this opportunity to enhance the collections on these subject fields and share with all CARLI libraries. With this grant funding CSU Library will purchase various types of formats, such as books, periodicals, and DVD tutorial programs.

To cooperate and support these new courses, programs and projects, a series of collections for new technology of digitization and instruction technology for e-learning are necessary. In addition, a digitized images project based on CARLI with the *CONTENTdm* system has formed the base of Digital Library of CSU, which will expand in the future and further be used in computer science courses as sampling projects of digitization. The collections to support these projects and courses on digitization will be essential, and will be effectively used by the faculty and students. The instruction technology for e-learning is a very hot topic and rapidly developed along with distance learning developing on various academic institutes. However, the collections now are limited among CARLI members. It is very necessary to increase this type of collections with funding.

CSU Library shares all collections of the main stacks, including all the computer science collections, with CARLI libraries through *I-Share* and through ILL and document delivery. The new Ariel workstation has been implemented this year. The new library building of CSU Library has been open since Fall 2006 with fully new facilities, storage (including Automatic Storage and Retrieval System) and the high speed network connections (1K mpbs) with VoIP telephones, new computer workstations and RFID system for automatically circulating collections. All these new facilities and services will enhance the management of collections as well as accessibility for library users.

### Data on Current Statewide Holdings

In the chart below, the search results show the shortage of collections on the fields of networking, telecommunications, digitization and multimedia/instruction technology that exist at the CSU Library and in I-Share. Compared with the growing enrollments at CSU in computer science programs, the collections in these subject fields do not meet the needs of education and research at CSU. In addition, the materials on computer science are very popular among CARLI

libraries, which means the collections will be frequently and heavily used by their users. Therefore, CSU Library would like to enhance local collections for these subject fields, which will also benefit CARLI by having more of these materials available.

(Results from searches in CSU Online Cataloging System, *I-Share* and *WorldCat*)

<b>(Any Word Anywhere / last 5 years)</b>	<b>CSU</b>	<b><i>I-Share</i></b>	<b><i>WorldCat</i></b>
<b>Networking</b>	76	941	3283
<b>Telecommunication</b>	101	2021	7841
<b>Digitization</b>	10	101	1186
<b>Multimedia/Instruction Technology</b>	63	1821	14377
<b>(Any Word Anywhere / books)</b>			
<b>Networking</b>	161	2061	7374
<b>Telecommunication</b>	470	8581	42786
<b>Digitization</b>	13	223	615
<b>Multimedia/Instruction Technology</b>	178	2894	15198
<b>(Title / books)</b>			
<b>Networking</b>	19	301	5438
<b>Telecommunication</b>	53	1198	3511
<b>Digitization</b>	0	14	234
<b>Multimedia/Instruction Technology</b>	28	434	8307

### Support

CSU Library will continue to support and maintain these collections in the future through local budgeting and applying for funding. As a member of CARLI, CSU Library will be fully responsible to build, maintain, serve and share all the collections with all CARLI libraries. Particularly, those collections funded by CARLI will be specially maintained through the cataloging process (identified on the bibliographic records) to ensure the accessibility, usage and sharing with the other members through *I-Share* and document delivery. In addition, CSU Library will provide and keep updating the list of purchases for those collections, which will make the other members aware of the collections purchased. This will reduce their need for acquisitions for the collections in such areas. Further, CSU Library would welcome the suggestions of which items the other members need, in order to enhance and maintain the collections funded by CARLI. Also, any withdrawal or changes in the collections funded by CARLI on these subjects will be notified to CARLI libraries before acting.

**Institution:** Illinois Institute of Technology, Paul V. Galvin Library  
**Contact Bibliographer:** Carol DeBiak  
**Collection Focus:** Computer Science Mathematics, Algorithms, and Computer Algorithms  
**Amount Requested:** \$3,000.00

The Illinois Institute of Technology (IIT) is a private Ph.D.-granting research and teaching university with a current enrollment of about 6800 students. It has one of the largest and oldest-established Computer Science departments in the Chicago area, and according to *Computing Research News*, the CS Department at IIT is one of the top ten producers of Master's degrees in the U.S. It is dedicated to keeping up with the evolving nature of the computer sciences. It even offers a special Master of Science for Teachers in Computer Science to support the emerging need for better instruction in this field at an earlier age. The Paul V. Galvin Library is the main university library and supports both research and the specific curricular goals of the courses taught at IIT.

The CS Department offers students a solid background in the core areas and exposure to cutting-edge computer technologies. Applied mathematics is a very important core area. IIT strongly believes that the application of mathematics in computer science is needed for the solution of the wide variety of new problems that arise in science, engineering, and society as scientific knowledge increases. Problems such as how to construct methods for multi-criteria decision making (requiring discrete mathematics and statistics), analyzing how liquids flow around solids (requiring expertise in computational methods and analysis), or even analyzing financial markets are examples. We must remember that future computing professionals will need strong skills in mathematics to produce the new efficient algorithms and methods to solve the new grand challenges.

The Paul V. Galvin Library is particularly interested in strongly supporting the application of mathematics within the computing field by collecting the necessary supportive resources. Two of the professors in IIT's Department of Computer Science who also have joint appointments in the Department of Applied Mathematics are also people who could give recommendations in this area. Some journal articles have already commented on a trend that is taking place in some U.S. Universities toward the isolation of mathematics from computing which could eventually damage the health of the field. In Illinois, we want to support the more interdisciplinary approach such as those successfully implemented at several top universities such as MIT and Princeton that combines applied mathematics with an emphasis on numerical analysis, programming and other fields. Galvin Library wants to begin by obtaining a more extensive monograph collection in the subject areas of Computer Science-Mathematics, Algorithms, and Computer Algorithms which it can share with other academic libraries in Illinois through *I-Share*. Since this also supports established curricular goals at IIT, we will continue to purchase in this area. We will use various resources such as *WorldCat* and *I-Share* to find out how widely various titles are held and if they circulate.

In doing a search under the subject heading "Computer Algorithms" on resources published between 2003 and 2007 available in *WorldCat*, I found that there were 185 books. In searching *I-Share* for the same subject heading and publication years, I found only 60 books. This indicates

that Illinois I-Share Libraries may only have ready access to 1/3 of the basic, current titles in this subject area. This is especially significant because many of the titles that are held by Illinois Libraries may be non-shareable e-resources or only available at one or two universities statewide. My search for Computer Science Mathematics within *WorldCat* yielded 756 books (134 published in 2003 or later) while my identical search in *I-Share* yielded 331 books (51 published in 2003 or later).<sup>2</sup> There is a specific need for shareable resources in these fields. If award monies are received the Paul V. Galvin Library agrees to share all items purchased. Items purchased will thus be monographic circulating items.

The Illinois Institute of Technology agrees to cover the costs of processing, equipment for housing, cataloging, and maintenance of materials purchased with CARLI Collections Enhancement Awards Program funds. The Paul V. Galvin Library agrees to file any necessary reports to the Computer Science Partnership lead as well as the CARLI Collections Enhancement Awards Program.

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<sup>2</sup> Numbers were taken from WorldCat and I-Share on 2/14/07

**Institution:** Illinois Institute of Technology, Louis W. Biegler Library  
**Contact Bibliographer:** Nancy Weichert  
**Collection Focus:** Internet Telephony and Computer Crimes Investigation  
**Amount Requested:** \$2,500.00

The Illinois Institute of Technology (IIT), founded in 1890, is a highly selective private Ph.D. granting research and teaching university that awards degrees in engineering, science, architecture, business, design, psychology, social science, humanities and law through its seven colleges and institutes. Current undergraduate and graduate enrollment is 6,800. The Louis W. Biegler Library is located on the Daniel L. and Ada F. Rice Campus in Wheaton Illinois. As a branch the Louis W. Biegler Library supports the specific curricular goals of the courses taught at the Daniel L. and Ada F. Rice Campus. Located in the heart of the Illinois Technology and Research Corridor it is only natural that the degree programs at the Daniel L. and Ada F. Rice Campus focus on Information Technology & Management, Manufacturing Technology & Management, and Business.

The Louis W. Biegler Library is particularly interested in becoming the go to library for resources in the areas of Internet Telephony and Computer Crimes Investigation. These two subject areas are of specific interest at the Daniel L. and Ada F. Rice Campus which houses state of the art laboratories in both voice of internet protocol (VoIP)—in which students have developed a VoIP telephone service known as SIP-IIT—and computer security and forensics. These labs support the research and development of students working on graduate degrees in Networking & Communications as well as Computer & Network Security. At the Illinois Institute of Technology resources in the areas of Internet Telephony and Computer Crimes Investigation will directly support the established curricular goals. In doing a search on resources available in *WorldCat* under the subject heading Internet Telephony I found that there are 427 books. In searching I-Share for the same subject heading I found 148 books many of which are non-shareable e-resources. My search for Computer Crimes Investigation within *WorldCat* yielded 229 books while my identical search in *I-Share* yielded 193 books.<sup>3</sup> As we can see there is a specific need for shareable resources in these fields. If award monies are received the Louis W. Biegler Library agrees to share all items purchased. Items purchased will thus be monographic circulating items.

The Illinois Institute of Technology agrees to cover the costs of processing, equipment for housing, cataloging, and maintenance of materials purchased with CARLI Collections Enhancement Awards Program funds. The Louis W. Biegler Library agrees to file any necessary reports to the Computer Science Partnership lead as well as the CARLI Collections Enhancement Awards Program.

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<sup>3</sup> Numbers were taken from WorldCat and I-Share on 1/27/07

**Institution:** Illinois State University, Milner Library  
**Contact Bibliographer:** Sarah C. Williams  
**Collection Focus:** Information Assurance and Security  
**Amount Requested:** \$2,500

Illinois State University (ISU), which is in the midst of its 150<sup>th</sup> anniversary, was the first public university in Illinois. In 2006, ISU's School of Information Technology began a new initiative to become a National Security Agency Center of Academic Excellence in Information Assurance Education; if the School achieves this designation, it will only be the fourth institution in Illinois to do so. In conjunction with this initiative, the School's faculty members research, publish, and pursue grants in the area of information assurance and security, and the School offers an information assurance and security specialization for undergraduate and graduate students. The curriculum specifically prepares students to enter the workforce capable of handling network and application security issues, as well as integrating security plans across multiple systems and platforms.

Considering the significance of this initiative, ISU's Milner Library would like to collect materials to support it. The materials purchased would be undergraduate- and graduate-level books. The majority of these materials would be published since 2000, although older works might be purchased if they are considered seminal works in the field.

Milner Library needs numerous materials to properly support the initiative. For example, the International Information Systems Security Certification Consortium recommends about seventy books, and Milner Library currently has only 51% of them. Disparities are also seen when searching the Milner Catalog, the *I-Share* Catalog, and *WorldCat*. For the Computer Security subject heading, the Milner Catalog had 254 results, *I-Share* had 1173 results, and *WorldCat* had 6279 results. For the Data Protection subject heading, the Milner Catalog had 68 results, *I-Share* had 281 results, and *WorldCat* had 4047 results.

Of course, Milner Library's collection would provide benefits outside of ISU. Similarly, the School of Information Technology's Center is committed to furthering information assurance and security education at ISU, as well as in the state and nation. Milner Library would facilitate this by lending any of these grant materials through Interlibrary Loan; this would be no problem, considering Milner Library is consistently one of the highest lending libraries in Illinois. Furthermore, given ISU's location, Milner Library's materials would also be easily accessible to employees at major companies such as State Farm Insurance and Caterpillar.

Milner Library will cover the costs of processing, equipment for housing, cataloging, and maintenance of materials purchased with CARLI Awards funds. Milner Library will also publicize the materials purchased and will continue to purchase materials in information assurance and security following the completion of this award.

**Institution:** Joliet Junior College  
**Contact Bibliographer:** Susan Prokopeak  
**Collection Focus:** Graphic Design in Gaming and Online Environments  
**Amount Requested:** \$2,000.00

Joliet Junior College (JJC) is a comprehensive community college. The college offers pre-baccalaureate programs for students planning to transfer to a four-year university, occupational education leading directly to employment, adult education and literacy programs, work force and workplace development services, and support services to help students succeed. The College has a combined total of 13,000 credit and 17,000 non-credit students attending classes on its main campus, located within the city of Joliet, and its two extension campuses, located in Romeoville and downtown Joliet. The College employs approximately 190 full-time faculty members and just over 200 full-time support staff.

JJC will be concentrating its efforts on collecting materials related to developing online and standalone gaming software. Specifically we will be concentrating on the issues related to graphic design in gaming and online environments. These materials will be available for lending to both our sister institutions and the public and school libraries in the Prairie Area Library System Consortium.

Specifically the collection of materials will materials related to the following subject areas: 3-D graphics, texture mapping, visual literacy, TERA (Tool for Exploring Rendered Algorithms), cost analysis for design, web design principles, Ray tracer, game design (theory and practice), design tools, and other materials that support the theory, analysis of design, graphic development, game aesthetics, and other works that support the emerging field of game design.

The Computer Information and Office System Department had developed a sequence of courses (to be used toward certificate completion) in Game Development. The library will be purchasing materials to support this curricular development. The monies requested with this proposal will assist JJC in more fully participating in the statewide collection of materials related to computer programming, game design and computer graphics.

Suggested titles include the following:

*Introduction to Game Development*, Edited by Steve Rabin, Charles River Media  
*Game Architecture and Design*, Rollings and Morris, Coriolis Publishing.  
*Game Design: The Art and Business of Creating Games*, Bates, Prima Tech.  
*Andrew Rollings and Ernest Adams on Game Design*, Rollings and Adams, New Riders.  
*Game Design: Theory and Practice*, Rouse, Wordware Game Developer's Library.  
*3D Game Engine Design*, David H. Eberly, Morgan Kaufmann.  
*Game Programming Gems 1, 2, 3, 4* Mark DeLoura, Charles River Media.

JJC requests funds in the amount of \$2000.00 to purchase these materials.

**Institution:** North Central College  
**Contact Bibliographer:** Carolyn A. Sheehy  
**Collection Focus:** Managing, Understanding, and Adding to the Knowledge Explosion: Knowledge Management and Interactive Media  
**Amount Requested:** \$4,000

**Focus Description:**

The field of knowledge management, with its technical aspects of data mining and data warehousing, developed in the mid 1990s as a response to the proliferation of different databases and data storage systems. The importance of this field has been magnified by the growth of the Internet as a source for both data and multimedia. Database systems now are expected to be interoperable with one another, on both the levels of communications and data. Computer science curricula, as well as management information systems and library and information science curricula, have instituted courses and course tracks for the discipline. The significance of the field is also evident in the explosion of works published since 1995.

**Table 1. WorldCat subject searches, 2/13/2007; limited to English language books**

	"Knowledge Management"	"Data Mining" or "Data Warehousing"
2007	69	25
2006	209	141
2005	319	234
2004	411	257
2003	453	248
2002	369	224
2001	271	211
2000	263	171
1999	185	147
1998	105	138
1997	39	102
1996	12	46
1995	9	9

Yet with this considerable amount of publication, only about 30% of the works found in *WorldCat* are held by Illinois libraries, and typically less than 30% held by CARLI institutions. These numbers include both technical aspects for these fields and applications ranging from use of data mining in libraries or advertising to knowledge management in business fields. Thus the field has a strong interdisciplinary component that establishes a need to establish a core collection of resources in the state.

**Table 2. WorldCat subject searches, 2/13/2007; limited to English language books, 2003 or later.**

Subject	All WorldCat	Illinois	% in Illinois	CARLI	% in CARLI
Knowledge management	1466	405	27.6%	372	25.4%
Data mining	783	227	29.0%	207	26.4%
Data warehousing	146	44	30.1%	36	24.7%
Distributed databases	59	18	30.5%	18	30.5%

One particular area of interdisciplinarity comes in the form of interactive media, which has seen similar growth over the same time span. The field has since become more specific in terms of publications offered, ranging from technical manuals on developing multimedia to works that analyze the impacts that the interactive media culture has on human existence. People have turned to the Internet as a means of accessing primary sources of interactive media, and professions and industries have needed to respond by developing systems for effective retrieval and delivery of such media. Again, while publication in this field has been considerable, only a third of these materials have been collected by Illinois libraries.

**Table 3. WorldCat subject searches, 2/13/2007; limited to English language books, 2003 or later.**

Subject	All WorldCat	Illinois	% in Illinois	CARL I	% in CARLI
Multimedia systems	582	207	35.6%	184	31.6%
Interactive multimedia	419	131	31.3%	92	22.0%
Visual literacy	40	11	27.5%	8	20.0%
Interactive video	24	1	4.2%	1	4.2%

North Central College intends to enhance the statewide collection in the fields of knowledge management and interactive media studies, and this collection effort will involve technical, cultural, and ethical components. The technical components for these areas will be concentrated in those resources that represent the foundations and fundamentals of the field, such that a core collection for the field is identified and established. The collection will also focus on resources found in few or no other Illinois libraries.

**Rationale:**

North Central College is well-positioned to collect in these important and inter-related areas. North Central College is a small, private, comprehensive liberal arts college that emphasizes interdisciplinarity as well as professional education, including graduate level education. Included in the latter category are Master of Science programs in Computer Science and Management Information Systems, both of which prominently feature tracks in database systems and knowledge management. At the undergraduate level, the College has recently launched a major in Interactive Media Studies that prepares students to understand and contribute to the current and future interactive media culture by examining technical, cultural, and ethical perspectives.

The \$4,000 requested will go toward the purchase of books, which will be fully cataloged in OCLC *WorldCat* and *I-Share*, and which will be available for interlibrary loan and reciprocal borrowing. The library will cover any processing and cataloging costs. The library commits to continued development and enhancement of this area after the completion of the award.