



SCHOOL OF INFORMATION SCIENCES

UNIVERSITY OF PITTSBURGH

## SIS lends telecommunication expertise to Kosovo university; will train faculty and help restore Internet infrastructure

*iSchool joins Schools of Education and Law to help build programs in Kosovo*

Pitt's School of Information Sciences (SIS) will lend its telecommunications expertise to the world's newest nation to help launch a graduate program at Kosovo's University of Pristina, the recovering Balkan nation's primary university. The hope for the three-year, \$450,000 project (supported by the U.S. Department of State)



is for the program to serve as a source of ideas and experts that the country needs to rebuild its infrastructure following years of war and unrest from the ethnic-Albanian majority's push for independence from Serbia.

The iSchool will collaborate with Pitt's Center for Russian and East European Studies (REES), which has a great deal of experience in facilitating international partnerships. Martin Weiss, a SIS professor and associate dean, will co-direct the program along with anthropologist Robert Hayden, chair of REES.

The Kosovo university has not had a lot of time or money to invest in essential technology. Yet, because of the fledgling nation's technology gap, local academic and political leaders support the program and acknowledge its potential to help foster economic independence, Weiss said. "It is fair to say that modern technology has been inconsistently deployed across campus." Weiss traveled to Pristina to evaluate the university's existing facilities. "There are pockets of relatively up-to-date technology and Internet access is often available, but outages are not uncommon and bandwidth is somewhat limited," he continued.

"The government has rebuilt a lot, but the damage is still extensive. They are going to need a lot of help to restore their infrastructure, and motivated students know that. They also know that other jobs are scarce."

In constructing the Pristina program, SIS has the advantage of working with a blank slate on which it can incorporate the lessons learned from building and nurturing its own 20-year-old telecommunications graduate program, Weiss said.

The program begins this semester with SIS faculty members training one Pristina professor each year in Pitt's SIS telecommunications lab and also helping the visiting professors shape the experience into a curriculum for the new program. Faculty will also help oversee the construction of a similar lab in Pristina next summer. Plans call for the first Kosovar students to enroll in the two-year program in fall 2009. The third year will be spent evaluating and fine-tuning the program.

"Though the University of Pristina suffered during the war, it remains a prominent institution in the fledgling nation and affords the program the best chance to flourish and benefit Kosovo," said Hayden. Regional experts in REES will help SIS navigate Kosovo's complex cultural, linguistic, and political channels. The breakaway republic's past strife could prove both formidable and beneficial, explained project co-director Martin Weiss.

SIS joins a long list of Pitt schools that are lending their expertise to universities in Eastern Europe, and it is the third school — along with Pitt's Schools of Education and Law — to help build a program in Kosovo, Hayden said. REES proposes projects in Eastern Europe to Pitt schools and faculty, and provides much-needed guidance should they accept.

Although Kosovo is mending, SIS enters a country with an uncertain future. Since Kosovo declared independence in February, the United States and nearly four dozen other nations — including France and Britain — have recognized its sovereignty, but Serbia and such nations as China and Russia have not. "We have expertise in administering programs in this region, which is not always easy," Hayden said. "In Kosovo especially there is a very complex political situation. There is Kosovo's government, but there are also a United Nations mission and a European Union mission. We can support SIS in this environment. I don't expect any political barriers," Hayden said, "but this project will require a certain amount of diplomacy."

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## Dialogue with the Dean

Here at the iSchool, we pride ourselves on being on the leading edge . . . the leading edge of technology, of research, of curriculum, and of educational delivery systems. Frankly, it's what we should do . . . lead the professions and our students in discovering, exploring, and sharing the tools and techniques for managing information. Once again, we are hoping to lead the profession in an innovative and critical direction — we will, with the gracious support of the Andrew W. Mellon Foundation, develop a graduate research program designed to understand and influence the emergence of digital communication and research in academia.



The widespread availability of digital content creates opportunities for new forms of research and scholarship that are different from traditional ways of using academic publications and research data. We call this "cyberscholarship".

In January 2008, we received a five-year, \$782,000 grant from the Andrew W. Mellon Foundation for this cyberscholarship initiative. The grant will enable the School to attract a senior scholar who will work within SIS and Pitt's University Library System to explore how disciplines are adapting new forms of scholarly communication to new media and technology tools. This work will help to determine what information professionals need to know about individual disciplines, and specifically their use and management of information, in order to be more effective partners in the scholarly process of advancing knowledge.

This grant will position SIS and Pitt to be leaders in understanding advances in scholarly communication resulting from the influence of data-intensive scholarship on society.

### Why is this so important?

Technology has changed the way information is collected, how it is stored, and how it may be shared. Notable and pioneering projects such as the arXiv open e-print archive, the National Virtual Observatory, and the National Center for Biotechnology Information have been appropriately credited for pioneering advances in the use of digital technologies to advance science. While technology has created opportunities for new forms of research and scholarship, these opportunities bring with them major challenges regarding access, authentication, storage, and policies.

The implications for society, for higher education, and, particularly, for the schools that educate the next generation of information professionals are profound. Historically, scholarly information management has been the mission of academic libraries, and the professionals staffing them were educated in library schools. So, as scholarly communication is transformed through cyberinfrastructure, the education of information professionals must also be transformed. We need to prepare information professionals to work with scholars across the academy to develop the new modes of scholarly communication and collaboration enabled by advancing cyberinfrastructure.

This cyberscholarship endeavor, broad in scope, is one of the ways in which we are working to remain on the leading edge of our field and to ensure that our graduates will have the appropriate skills for the demands of an ever-changing profession. It is a major effort that will raise the profile of the school, the faculty, the students, and the alumni within the information discipline.

*Ronald L. Larsen, Dean and Professor*

## Designation of excellence from NSA and DHS

The National Security Agency (NSA) and the Department of Homeland Security (DHS) have designated the University of Pittsburgh as a National Center of Academic Excellence in Information Assurance Research for the years 2008 to 2013. Pitt is one of 23 such National Centers, which recognizes the quality of the iSchool's Information Assurance and Security curriculum and research program.

The National Centers program was launched in September 2007 by the NSA and DHS to support research that will

build the nation's capacity for robust IA technology and the ability to respond to a catastrophic event. The program recognizes schools that foster an IA research focus in both curriculum, as well as labs. Designated universities are eligible to apply for scholarships and grants through both the federal and Department of Defense Information Assurance Scholarship Programs.

The Security Assured Information Systems (SAIS) tracks of study, offered in the graduate programs in both Information Science and Telecommunications, are key

to the designation as a Center. The SAIS tracks focus on the design and development of secure networked information systems; deployment, management, and maintenance of networks, systems and IT infrastructures; and evaluation and certification of the security of systems and software. The curriculum is also certified by the Committee on National Security Systems as meeting all five of the national standards for Information Assurance (IA) education. Currently, there are only 12 institutions that have all five certifications.





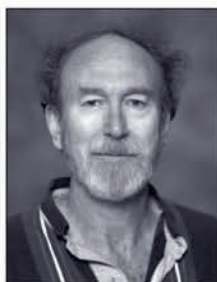


## Department of Defense awards project to Lewis

The Department of Defense Multidisciplinary University Research Initiative (MURI) program has awarded about \$1.5 million to SIS Professor Michael Lewis to participate in two projects.

The MURI program supports research projects of interest to DOD. Lewis, whose research interests include human-computer interaction, will work with researchers from four other universities on a project to discover methods for observing how cultural differences may affect negotiation efforts. The results may be used to train military negotiators. Lewis will also work with faculty at other universities on the second project to evaluate the benefits of a decentralized military information network.

The negotiation research project will help military personnel to better cooperate with people of different cultures. It is part of a larger project to understand the factors that lead to success or failure in negotiation and cooperation. Researchers from CMU, the University of Michigan, Georgetown University, and the



University of Southern California will participate in the project. Lewis and the University of Pittsburgh team will develop a browser-based negotiation environment to better account for distance and language issues. The Pitt portion of this project is funded at \$600,000.

The second project will study the feasibility of a decentralized military information network and will involve researchers from CMU, MIT, Cornell University, and George Mason University. The researchers hope to develop and evaluate a military communication system that will utilize a peer-to-peer network outside of the chain of command. While this might allow soldiers and robots to communicate and react more efficiently to changing situations, there is the possibility that the decentralization might confuse troops. Lewis and the Pitt team will evaluate the strengths and weaknesses of the proposed network as it relates to how the teams of soldiers will interact with the communication system. The entire project is funded for \$7.5 million; the Pitt portion will be nearly \$1 million.

## iSchool honors Anthony Debons with Festschrift

The long and distinguished career of Dr. Anthony Debons has been honored by leading scholars in information sciences with a Festschrift, *Perspectives on Information Science*. The book is available for a \$50.00 donation to the Anthony Debons Fund.

The Festschrift incorporates articles and tributes from colleagues, former students, and SIS faculty who have had the honor of working with Debons during his illustrious career at Pitt. Topics range from ethics and policy issues for information professionals to spatial information science to designing voice applications for visually impaired or physically handicapped

users. Sales of the book will benefit the Anthony Debons Award, which is presented annually to an undergraduate student for outstanding contributions to the undergraduate Information Science program. Editors of the Festschrift are Toni Carbo, professor at the iSchool, and Jim Williams, professor emeritus. To contribute to the Debons Award and receive a copy of *Perspectives on Information Science*, please return the coupon on page 7 to SIS, Attn: Joelleen Brandt, 135 N. Bellefield Ave., Pittsburgh, PA 15260. Your \$50 gift will cover the \$18 cost of the book and shipping, with the remainder applied as a charitable donation to the Anthony Debons Fund.

## Consortium honors Detlefsen

Ellen Detlefsen, lead faculty member for the Medical Librarianship/Informatics specialization in the MLIS program, received a 2007 WISE Faculty of the Year Award for Excellence in Online Education. WISE (Web-based Information Science Education) is a collaborative distance education model that increases the quality, access, and diversity of online education opportunities in library and information science.

This award is given to faculty nominated by WISE students from institutions other than the faculty member's home institution. The WISE consortium has grown to 15 member institutions and has offered more than 200 courses to over 300 students since 2004. The award honors best practices in online education and is given to faculty selected by students who have taken courses as part of the WISE consortium.



## Army funds research project

Other SIS faculty are part of a research project funded by the Army Research Office's Multi-University Research Initiative. Prashant Krishnamurthy and David Tipper will collaborate on how to construct robust and secure mobile ad hoc networks, which is a joint effort of 12 professors at seven institutions — three University of California campuses (Davis, Santa Cruz, and Riverside), Brigham Young University, University of Utah, University of Pittsburgh, and Penn State.

The Army Research Office funded this innovative project for a five-year period at \$6.25 million. The goal is to develop a cross-layer architecture that provides comprehensive security and resilience for mobile ad hoc networks. The resulting architecture will be able to adaptively provide the appropriate trade-offs between performance, security, and fault-resilience. Krishnamurthy and Tipper are associate professors in the School of Information Sciences.







## Leanne Bowler and Bernadette Callery join SIS faculty

### Leanne Bowler

A new faculty member who specializes in services for children and young adults joined the faculty in January. Leanne Bowler, who teaches in the Library and Information Science program, received her doctorate from McGill University's Graduate School of Library and Information Studies. Her dissertation investigated the metacognitive knowledge of adolescent students during the information search process. She will be teaching courses in the Services to Children and Young Adult area of interest. Bowler's research interests include children's and young adult library service, children's and young adult information behavior, family literacy/emergent literacy, health information and youth/health information literacy, and information design/design methodology.

While a doctoral student at McGill, she participated in a research project at McGill to build "HistoryTrek" (<http://www.historytrek.ca/>), a web portal for children about Canadian history. An intergenerational team (six children, three adults) designed the site, a database of 2,300 links to websites on Canadian history.

Bowler ran the Summer Institute for School Librarianship at McGill University for three years, and last summer led two workshops in Indonesia on school librarianship for faculty from Indonesian universities. She has master's degrees in library science and education, both from McGill. She hopes to continue Pitt's great tradition in children's library services.



### Bernadette Callery

A librarian who has been teaching at SIS for seven years as an adjunct and visiting assistant professor joined the faculty in September. Bernadette Callery has been teaching courses in Archives, Preservation, and Records Management, and is now the lead faculty member for this very popular specialization in the MLIS program.

Prior to joining the iSchool, Callery was the librarian at the Carnegie Museum of Natural History. She oversaw the library relocation, supervised graduate students from the iSchool's field experience program, and began the identification and processing of the museum's archives. While at the museum, she organized three preservation fairs, one-day events that bring archivists, librarians, conservators, and other providers of preservation



services and supplies together with the general public. She is currently working on the next preservation fair, scheduled for February 28, 2009.

From 1987 to 1994, she was a research librarian at the New York Botanical Garden and co-curator of *Nature's Mirror: 200 Years of Botanical Illustration*, a collaborative effort of the New York Botanical Garden, the New York Public Library, and the Royal Botanic Gardens, Kew. From 1971 to 1987, she was assistant librarian and then librarian at the Hunt Institute for Botanical Documentation at CMU.

Callery received her BA in English from Seton Hill College, a master's in library science from the University of Chicago, and a PhD from the University of Pittsburgh. She has published extensively in journals, including the *Journal of Internet Cataloging* and *American Archivist*, and has made presentations at the Mid-Atlantic Archives Conference, the Society of American Archivists, and the Midwest Archivist Conference.

### James Joshi promoted

The lead faculty member in Information Assurance and Security has been promoted to associate professor. James Joshi, whose research interests include systems security, role-based access control, secure interoperability, distributed systems security, security and privacy of multimedia systems, security of XML documents, and systems survivability, joined the faculty in 2003. He received his PhD in computer engineering from Purdue University.



Joshi has received a number of grants, including the prestigious National Science Foundation's (NSF) Faculty Early Career Development Award. Joshi was recognized for his work on A Trust-Based Access Control Management Framework for Secure Information Sharing and Multimedia Workflows in Heterogeneous Environments. He also received funding from NSF to create the curriculum in Security Assured Information Systems (SAIS) and to offer a scholarship program for students interested in the field.

### Joelleen Brandt, new director of constituent relations

The School of Information Sciences has a new director of constituent relations. Joelleen Brandt will coordinate development efforts and manage the alumni relations program. She previously worked with major gifts in Pitt's Office of



Institutional Advancement. Prior to joining Pitt, Brandt worked in the Office of Financial Aid at Allegheny College and the law firm of Morgan, Lewis and Bockius. She earned a BA in political science from Allegheny College and is nearing completion of an MEd in higher education administration at Pitt.







Dean Ron Larsen (left) and Ida Flynn's father, Gino Moretti, at the dedication of a plaque in the IS building lobby honoring his daughter.

## Plaque honors Ida M. Flynn

Last fall SIS dedicated a plaque to honor the late Ida M. Flynn, long-time faculty member and mentor to hundreds of students. The permanent plaque in the IS building lobby commemorates Flynn's contributions and recognizes those outstanding students who have received the Ida M. Flynn Award. The award was established in tribute to her work as an educator, a pioneer in the information science field, a dedicated mentor to students, and an outstanding role model for women in information sciences.

The award is presented annually to an undergraduate student at SIS who best exemplifies the same type of intellectual and mentoring accomplishments that marked Flynn's tenure at SIS. As a well-respected member of the faculty and an outstanding contributor to the discipline, she began her teaching career at Pitt in 1980. She served as director of the undergraduate Information Science Program from 1991 to 2000, but continued to teach at SIS after retirement.

Donations to the Ida M. Flynn Award are gratefully accepted. Please visit <http://www.ischool.pitt.edu/alumni/giving-ways-to-give.php> to make a gift in her honor.

## Three graduates honored by *Library Journal*

Three SIS graduates — Alexia Hudson, Mark Vrabel, and Karen Brooks-Reese — have been honored by *Library Journal*. Each year the magazine selects 50 people from hundreds of nominations of those who have contributed to transforming the library profession.

Alexia Hudson was a motivating force when she was a student in the FastTrack MLIS program (MLIS, 2005). She is being recognized nationally as a "Mover and Shaker, 2008" in the Marketer category for her efforts to help "students re-envision libraries as a place for continuous professional development with emerging technologies." As the assistant librarian/reference librarian at Penn State Great Valley School of Graduate Professional Studies, Hudson focuses on graduate student orientation, training, and developing the virtual campus in the Second Life Penn State Virtual Worlds project.

Mark Vrabel is an MLIS graduate and has a Certificate of Advanced Study in Medical Librarianship/Informatics from SIS. He is the information resources supervisor at the Oncology Nursing Society in Pittsburgh. He was selected in the Problem Solver category for his use of "ONS evidence-based practice initiatives by keeping nurses apprised of research on best practices in clinical treatment of cancer patients." Vrabel has also published in clinical practice journals.

Karen Brooks-Reese (MLIS, 2005) was chosen for her work in creating new programs for teens at the Carnegie Library of Pittsburgh. She is coordinator of teen services. Working with teenagers, she created a number of programs including Tell-a-Tale Theater (teens bring popular children's books and activities to children at branch libraries), a video contest for teen-designed ads promoting the library, and Behind the Book: Authors Talk to Teens. Brooks-Reese is training teen specialists at 83 libraries and is fostering a leadership development program.

## Faculty edit book on information assurance

James Joshi, Prashant Krishnamurthy, and David Tipper have edited a volume on information assurance with Yi Qian of the University of Puerto Rico. Published last November by Elsevier, *Information Assurance: Dependability and Security in Networked Systems*, is intended for researchers, professionals, and students in information security technology. With society increasingly dependent on network technologies, the book is timely as new and complex threats to the availability, integrity, and confidentiality of electronic information emerge.

The book combines coverage of both security and survivability in a networked information technology setting. Each chapter provides insights from leading industry and academic researchers about state-of-the-art survivability and security techniques and explains how these components interact in providing information assurance. Topics include failsafe design features, design for system and network survivability, integration of dependability and security, monitoring and securing all-optical networks, evaluation of the robustness of operating systems, and integrated fault and security management. Joshi, Krishnamurthy, and Tipper are associate professors at SIS.







# School of Information Sciences Alumni Society (SAS)

**T**he School of Information Sciences invites all alumni of the School to join the School of Information Sciences Alumni Society (SAS). SAS is a free organization that promotes the School with activities and programs that benefit current students and alumni by creating a network of information professionals that spans disciplines and generations. SAS members contribute to the success of future graduates and build lasting relationships at the School and throughout the University of Pittsburgh.

SAS officers for the 2008-2009 academic year are Karen Grunebach, President (BSIS '83, MSIS '88); Joe Imbimbo, Vice President (MST '91); Nancy Alstadt, Secretary (MLS '75); Kimberly Gregory (MLS '98); and past presidents Barbara Zaborowski (MLS '90, PhD '08) and Denise Callihan (MLS '92). For more information, please visit: <http://www.ischool.pitt.edu/alumni/sas.php>. SAS encourages you to participate in the following events sponsored by the Pittsburgh Alumni Association.

**Thursday, October 23, Pathway to Professions.** This fifth annual networking event will be held from 6:00 p.m. to 8:00 p.m. in the Connolly Ballroom of Alumni Hall. Pathway to Professions is a forum for Pitt students and alumni to discuss career opportunities in an informal, comfortable atmosphere. Advance alumni registration is requested by contacting Joelleen Brandt at [jbrandt@sis.pitt.edu](mailto:jbrandt@sis.pitt.edu) or (412) 624-9473.

**Friday, October 24, 2008, Welcome Back Reception.** *A New Tradition on Campus for all Pitt Alumni.* This reception is open to all alumni and is sponsored by the Pittsburgh Alumni Association. From 6:00 p.m. to 8:30 p.m., the Commons Room in the Cathedral of Learning will feature musical entertainment, cocktails (proof of age required), heavy hors d'oeuvres, dessert, and coffee. Meet friends and classmates from decades past, reconnect with SIS alums at the SIS Homecoming table, and visit the Nationality Rooms. If you've never come back for

Homecoming, now is the time to start! Casual attire requested. RSVP by October 17th to [alumnievents@ia.pitt.edu](mailto:alumnievents@ia.pitt.edu) or call 1-800-ALU-PITT. Following the reception, the Pitt Program Council presents a Fireworks and Laser Show.

**Saturday, October 25, 2008, Pitt vs. Rutgers Football Game.** For ticket information, call (800) 643-7488 or visit [www.pittsburghpanthers.com](http://www.pittsburghpanthers.com). The kickoff time is not likely to be known until early October.

For more information about Pitt's Homecoming activities, please visit <http://www.alumni.pitt.edu/>

## Distinguished Alumni and Professional Achievement Awards

The School of Information Sciences Distinguished Alumni and Professional Achievement Awards will be held during the spring of 2009. Please visit: <http://www.ischool.pitt.edu/alumni/distinguished-alumnus-award.php> for up-to-date information on eligibility, nominations, and selection. The purpose of this annual event is to recognize alumni for their outstanding support and service to the University, the School, and the fields of information science.

The 2007 winners were Cynthia K. Richey, MLS '72 (Distinguished Alumni Award), Gladys S. Maharam, MLS '67 (Professional Achievement Award), and Timothy V. Kelly, DSc, MSIS '83, ACT '90 (Achievement Award). Winners of the awards personify the ideals and mission of the School of Information Sciences to produce leaders in the information professions. SIS congratulates each of the winners and thanks them for their support of the School.

If you wish to nominate an alumna/alumnus for the 2009 Distinguished Alumni or Professional Achievement Awards, or if you have questions about SAS, please contact Joelleen Brandt, director of constituent relations, at [jbrandt@sis.pitt.edu](mailto:jbrandt@sis.pitt.edu) or 412-624-9473.

## Alumni news

**Barbara Zaborowski, MLS '90, PhD '08**, completed her doctorate in Library and Information Science from the School of Information Sciences at the University of Pittsburgh. She has been an active member of the School of Information Sciences Alumni Society (SAS) since 2002, most recently serving as past president.

**Christine Spink, MLS '91**, is the Technical Services Librarian for the Chautauqua-Cattaraugus Library System. Christine oversees acquisitions, cataloging, and processing of materials for 36 public libraries in western New York.

**Joseph Imbimbo, MST '91**, was elected to the Oracle Applications Users Group (OAUG) Board of Directors for the term 2008-2010. In April, he presented a paper entitled "Navigating the Oracle Diagnostics Security Model" at the OAUG Collaborate Conference in Denver, Colorado. Imbimbo is a Principal Software Engineer at Carnegie Mellon University and is vice-president and president-elect of the School of Information Sciences Alumni Society (SAS).

**John Fitzgerald, MLS '98**, is an archivist for the United States Army Corps of Engineers in the Rock Island District (IL). He is currently on assignment as a special assistant to the Deputy District Engineer in Afghanistan. Fitzgerald will be reviewing records in Afghanistan, Kyrgyzstan, and Uzbekistan in preparation for a written history of the Afghanistan Engineer District (AED).

**Peter Hummon, MST '98**, is pursuing his doctorate in computer science at Princeton University.

**Cynthia Martincic, MSIS '96, PhD '01**, was promoted to Associate Professor of Computing and Information Science at St. Vincent College.

**Petrina Jackson, MLS '02**, joined the staff of the Albert and Shirley Small Special Collections Library at the University of Virginia as Head of Instruction and Outreach.

**Stephen Michaels, MLS '04**, is the Electronic Services & Systems Librarian at the Western Theological Seminary in Holland, Michigan.





*Alumni News continued*

**Debra Day, MLS '06**, is the Program Support Specialist at the University of Pittsburgh School of Information Sciences.

**Pamela Lovera, MLS '07**, is the Medical Librarian and Continuing Medical Education Coordinator at Prince William Hospital in Manassas, Virginia.

**Ivonne Martinez, MLS '07**, is the Hospital Outreach Librarian at Dahlgren Memorial Library at Georgetown University Medical Center in Washington, D.C. She spent the last 13 years at the Dahlgren Library in a series of challenging positions. In her new role, she will lead and coordinate the library's efforts to initiate and facilitate collaborative partnerships with Georgetown University Hospital.

**Kimberly Hanold, MLS '07**, is the Systems/Reference Librarian at the University of Pittsburgh, Bradford.

**Judith Vachon, MLS '07**, is a Librarian at the Carnegie Library of Pittsburgh.

We'd love to hear about your career, graduate studies, volunteer efforts, and professional accomplishments. If you would like to update us on these or other changes to your personal information, please complete the Alumni Update Form located at: <http://www.ischool.pitt.edu/alumni/update-form.php>. We will publish your class notes in the earliest possible issue of SIS Link. Note that future information will be distributed electronically. Include your e-mail address on the update form and keep "up-to-date" with the iSchool and your colleagues.

## NSF grant for Daqing He

The National Science Foundation has awarded Daqing He, an assistant professor at SIS, a \$691,500 grant for a collaborative project with Yiming Yang from CMU.



The project aims to significantly improve adaptive filtering technologies by understanding how to learn from multiple users with broad applications in information retrieval. The results of this project will provide a significant contribution to the field of information search and to an understanding of how to effectively learn from multiple users. The project will also discern how to combine multi-aspect user

information in a new unified framework, with broad applications in information retrieval (web-based and enterprise search engines, for example) by giving them a major adaptive and personalization dimension.

He joined SIS in 2004 after working as a research scientist at the University of Maryland. His BS and MS are in computer science and engineering from the Beijing University of Aeronautics and Astronautics and his PhD is in informatics from the University of Edinburgh in the United Kingdom. His CMU collaborator, Yiming Yang, is a professor in the Machine Learning Department, School of Computer Science.



*Thank You!*

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Working with faculty and administration, this group will help to ensure that the Telecommunications and Networking curriculum and laboratories are keeping up with ever-evolving technology.

As information and communication technology become increasingly more accessible worldwide, Carbo believes that more attention must be paid to the ethical implications and policies needed to ensure appropriate use. The goal of this Institute, she said, is to work toward encouraging government agencies, corporations, and non-profit organizations that are building information systems and services to understand and consider ethical and policy issues, as well as incorporate this understanding into the systems and services. Carbo hopes to attract continued research and educational funding, recruit students to study and conduct research at the Institute, and continue the School's highly regarded lecture series.

The FastTrack MLIS program has been expanded to include the School's highly-regarded specialization in Archives, Preservation, and Records Management. This specialization, which ranked fourth in *US News and World Report*, will be offered in the online environment beginning in Fall 2008. Students will gain theoretical and practical knowledge about records and recordkeeping systems, electronic records management, archival appraisal and access, the history and evolution of recordkeeping systems, digital preservation, and preservation management of library and archives collections.

To date, 402 people have completed the FastTrack program, and another 156 are currently enrolled. Graduates of this specialization have found successful and challenging careers in government, higher education, corporations, and cultural organizations. This is a 36-credit degree program that can be completed in two years of part-time study. For more information, visit <http://fasttrack.sis.pitt.edu/>.



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