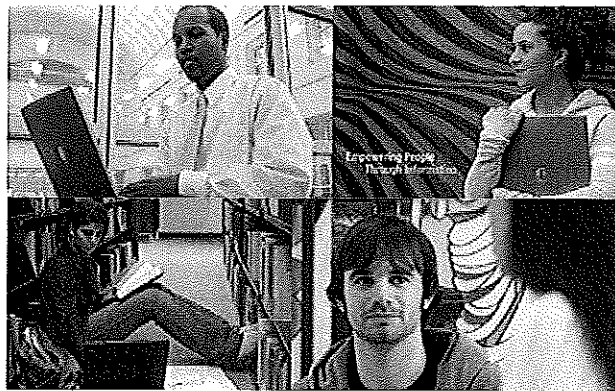# COLLEGE OF COMPUTING AND INFORMATION

UNIVERSITY AT ALBANY
State University of New York

CCI 2.0 Year II Faculty Meeting

September 5, 2008

Empowering People Through Information

CCI 2.0 Year II: Faculty Meeting - Friday, September 5, 2008
Build Community, Shape the College, Raise Support

Table of Contents

Jeong-Hyon Hwang

Assistant Professor
Computer Science Department
College of Computing and Information

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Library 96A

Research Interests

Databases and distributed systems, real-time data stream processing, fault tolerance, load management, Internet-scale data management, and ubiquitous computing.

In today's world of ubiquitous computing, a large number of interconnected computing and sensing devices are available. The goal of my research is to build highly usable information systems that can help individuals and organizations make smart decisions at the right moments. Crucial challenges in this research include quickly collecting, processing, and delivering relevant information in a scalable, resource-efficient, and fault-tolerant manner. My recent work centered on fast and reliable processing of real-time data streams despite slow or failed servers and networks. In addition to several general recovery techniques, I developed customized solutions for two popular types of computing environments. For commodity server clusters, I designed and implemented a fast recovery technique in which processing modules on each server are backed up on different servers and thus can be recovered in parallel. For the Internet, I developed an approach where multiple processing replicas send outputs to downstream replicas, allowing each replica to use whichever data arrives first. I have published more than 20 research articles on the aforementioned subject and others, including load balancing, data dissemination, and concurrency control. My ongoing research focuses on understanding the nature of failures in various contexts (e.g., data centers, the Internet, sensor networks) and developing appropriate solutions for such failures. I also intend to develop information systems that can integrate diverse live and stored online data, including Web feeds, audio/video streams, sensor signals, images, and text.

Biographical Sketch

Jeong-Hyon Hwang completed his Ph.D. in Computer Science at Brown University in 2008 and received M.S. and B.S. degrees in Computer Science from Brown University in 2003 and Korea University in 1998, respectively. His research on fast, fault-tolerant, resource-efficient, and scalable processing of real-time data streams has been conducted in collaboration with researchers at MIT, Brandeis University, Brown University, and IBM Research. He has co-authored more than 20 research articles, filed a US patent application, translated two books on algorithms and computer programming into Korean, and served as a program committee member or a reviewer for several prestigious conferences on computer systems. Jeong-Hyon is a recipient of the 2005 SIGMOD best demonstration award. He received a national scholarship and a software development award, both from the Ministry of Information and Communication of Korea. Jeong-Hyon also has industrial experience as a software development team manager and a software engineer.

Selected Publications

Jeong-Hyon Hwang, Ugur Cetintemel, and Stan Zdonik, "Fast and Highly-Available Stream Processing over Wide Area Networks", In Proceedings of the 24th International Conference on Data Engineering (ICDE), 804-813, 2008.

Jeong-Hyon Hwang, Sanghoon Cha, Ugur Cetintemel, and Stan Zdonik, "Borealis-R: A Replication-Transparent Stream Processing System for Wide-Area Monitoring Applications (Demonstration)", In Proceedings of the 2008 ACM SIGMOD Intl Conference on Management of Data, 1303-1306, 2008.

Jeong-Hyon Hwang, Ying Xing, Ugur Cetintemel, and Stan Zdonik, "A Cooperative, Self-Configuring High-Availability Solution for Stream Processing", In Proceedings of the 23rd International Conference on Data Engineering (ICDE), 176-185, 2007.

Ying Xing, Jeong-Hyon Hwang, Ugur Cetintemel, and Stan Zdonik, "Providing Resiliency to Load Variations in Distributed Stream Processing", In Proceedings of the 32nd International Conference on Very Large Data Bases (VLDB), 775-786, 2006.

Y. Ahmad, U. Cetintemel, B. Berg, M. Humphrey, J.-H. Hwang, O. Papaemmanouil, A. Rasin, N. Tatbul, Y. Xing, and S. Zdonik, "Distributed Operation in the Borealis Stream Processing Engine (Demonstration, Best Demo Award)", In Proceedings of the 2005 ACM SIGMOD International Conference on Management of Data, 882-884, 2005.

Jeong-Hyon Hwang, Magdalena Balazinska, Alexander Rasin, Ugur Cetintemel, Michael Stonebraker, and Stan Zdonik, "High-Availability Algorithms for Distributed Stream Processing", In Proceedings of the 21st International Conference on Data Engineering (ICDE), 779-790, 2005.

M. Balazinska, D. Abadi, Y. Ahmad, M. Cherniack, J.-H. Hwang, W. Lindner, A. Rasin, N. Tatbul, Y. Xing, S. Zdonik, "The Design of the Borealis Stream Processing Engine", In Proceedings of the 2nd Biennial Conference on Innovative Data Systems Research (CIDR), 277-289, 2005.

Ying Xing, Stan Zdonik, and Jeong-Hyon Hwang, "Dynamic Load Distribution in the Borealis Stream Processor", In Proceedings of the 21st International Conference on Data Engineering (ICDE), 791-802, 2002.

Jeong-Hyon Hwang, SungHo Cho, and Chong-Sun Hwang, "Optimized Scheduling on Broadcast Disks", In Proceedings of the 3rd International Conference on Mobile Data Management (MDM), 91-104, 2001.

Siwei Lyu

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Research Interests

Statistical modeling of images, digital image forensics, computer vision, image processing, machine learning and pattern recognition.

My main research interest is in modeling the statistics of photographic images. Within this area, my research work spans multiple levels of focus, from a MRF-based joint probabilistic model of photographic image wavelet coefficients, to a non-linear image representation with perceptual relevance, to a concise image feature characterizing photographic images in the wavelet domain, all of which aim to construct effective statistical description of photographic images with feasible computation load. I applied these techniques to solve problems in image processing, analysis and forensics.

Biographical Sketch

Dr. Siwei Lyu received his B.S. degree in Information Science in 1997 and his MS degree in Computer Science in 2000, both from Peking University, China, and his Ph.D. degree in Computer Science from Dartmouth College, in 2005. From 1998 to 2000, he worked part-time at the Founder Research and Development Center, Beijing, China, where he developped a script language for an interactive multi-media authoring system. From 2000 to 2001, he worked at Microsoft Research Asia (then Microsoft Research China) as an assistant researcher, where he worked on techniques to render and recognize digital inks, for which he holds two patents. From 2005 to 2008, he was a post-doctoral research associate at New York University. He is currently an assistant professor at Computer Science Department at the University at Albany, SUNY. His research interests are in machine learning applied to image modeling, computer vision, computational neural science, digital image forensics and bioinformatics.

Selected Publications

Modeling Multiscale Subbands of Photographic Images with Fields of Gaussian Scale Mixtures, S. Lyu and E. P. Simoncelli, *IEEE Trans. Patt. Analysis and Machine Intelligence*, 2008. Accepted for publication.

Nonlinear Image Representation using Divisive Normalization, S. Lyu and E. P. Simoncelli, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Anchorage, AK, 2008.

Statistically and Perceptually Motivated Nonlinear Image Representation, S. Lyu and E. P. Simoncelli, *Proc. SPIE, Conf. on Human Vision and Electronic Imaging XII*, vol. 6492, San Jose, CA, 2007.

Statistical Modeling of Images with Fields of Gaussian Scale Mixtures, S. Lyu and E. P. Simoncelli, *Advances in Neural Information Processing Systems (NIPS)*, 2006.

Steganalysis Using Higher-Order Image Statistics, S. Lyu and H. Farid, *IEEE Transactions on Information Forensics and Security*, 1(1):111-119, 2006.

A Digital Technique for Authentication in the Arts, D. Rockmore, S. Lyu and H. Farid, *International Foundation for Art Research (IFAR) Journal*, 8(2):21-29, 2006.

Automatic Image Orientation Determination with Natural Image Statistics, S. Lyu, *ACM Multimedia*, Singapore, 2005.

Kernels for Unordered Sets: the Gaussian Mixture Approach, S. Lyu, *European Conference on Machine Learning (ECML)*, Porto, Portugal, 2005.

Infomax Boosting, S. Lyu, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Diego, CA, 2005.

Wavelet Analysis for Authentication, S. Lyu, D. Rockmore and H. Farid, *Art+Math=X*, Boulder, CO, 2005.

Mercer Kernels for Object Recognition with Local Features, S. Lyu, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Diego, CA, 2005.

How Realistic is Photorealistic?, S. Lyu and H. Farid, *IEEE Transactions on Signal Processing*, 53(2):845-850, 2005.

Steganalysis of Recorded Speech, M.K. Johnson, S. Lyu and H. Farid, *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2005.

A Digital Technique for Art Authentication, S. Lyu, D. Rockmore and H. Farid, *Proceedings of the National Academy of Sciences*, 101(49):17006-17010, 2004.

Steganalysis Using Color Wavelet Statistics and One-Class Support Vector Machines, S. Lyu and H. Farid, *SPIE Symposium on Electronic Imaging*, San Jose, CA, 2004.

Higher-Order Wavelet Statistics and their Application to Digital Forensics, H. Farid and S. Lyu, *IEEE Workshop on Statistical Analysis in Computer Vision (in conjunction with CVPR)*, Madison, WI, 2003.

Detecting Hidden Messages Using Higher-Order Statistics and Support Vector Machines, S. Lyu and H. Farid, *5th International Workshop on Information Hiding, Noordwijkerhout*, The Netherlands, 2002.

Donghee Sinn
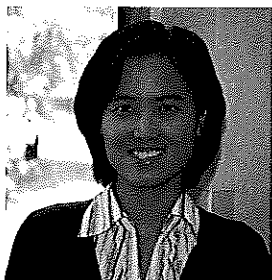
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Research Interests

Archives, archival research and public memory, archival use/user studies, personal archiving in the web environment, archiving web contents, public memory, and Asian cultures and heritages.

One of my major interest centers on the use of archival holdings and the actual influence of archival materials in the entity of knowledge in a certain area. It is crucial for archives to understand how users discover and actually utilize archival holdings and how much credibility they grant to them for their research. To date there have not been many archival user studies investigated from actual publications of archival researchers.

My research interests also include the general public's personal archiving in the web environment. Individuals' personal records will be future historical resources that document the era in which they lived. These days, people create their letters and diaries in electronic formats and many preserve them in web domains. Individuals' personal web contents have not yet been regarded as historic resources or archival materials to the same degree as traditional personal records. In a similar context, web communities or institutions which do not exist in a physical form might also encounter the same situation in archiving their history. Whenever there is a need to preserve documents in any format, information professionals should play a definitive role to provide guidance and consultation in archiving activities.

Another area of research interest is archival research in relation with public memory, especially for various cultures and historical events. The American society is composed of diverse ethnic groups and cultural heritages, giving the country a unique character and thereby creating a dynamic driving force in society. However, little has been explored about the relationship between public memory and archival collections in the history of various cultural heritages.

Biographical Sketch

Donghee Sinn is an Assistant Professor of the Department of Information Studies. She specializes in Archives and Records Management, and her research interests focus particularly on the archival research in relation with public memory, archival use/user studies, and personal archiving in the web environment. She has a B.A. and a Master's in Library and Information Science from Chung-Ang University in Seoul, Korea with a focus on history of books and Korean bibliography, and a Ph.D. in Library and Information Science from the University of Pittsburgh, specializing in Archives and Records Management. Previously, Donghee worked at the National Archives in Korea in acquisition and appraisal, taught at a college in Korean bibliography, and worked as a reference librarian in Korea. While working for a Ph.D. in the States, she worked in the East Asian Library for the Korean Collection at the University of Pittsburgh. Since then she has been participating and serving on the Library Technology Committee and the Membership Committee of the Council of East Asian Libraries, which is a sub group of the Asian Studies Association. She also worked as a webmaster for one of the institutes at the University of Pittsburgh. Her dissertation study was recognized and prizes were awarded from the ALA (American Library Association) and her own school. She is very interested in building bridges among several disciplines including archival studies, archiving in the web environment, and the East Asian culture and heritages.

Selected Publications

Archival Information Services, Seen from the American Archival Reference Services, *Kirogin (Archivist)* 2 (Korea, Summer 2008) (forthcoming).
Creating a University Archives, *Journal of Library and Information Science,* 7 (Korea, 2004): 281-316.
Management of Hospital Records (IRMT Managing Public Sector Records, a Training Programme by International Council on Archives), translated by Donghee Sinn, Chilli Tamgu, Seoul: Korea, 2003.
Management of Legal Records, *IRMT Managing Public Sector Records, a Training Programme,* by International Council on Archives, translated by Donghee Sinn, Chilli Tamgu, Seoul: Korea, 2003.
The Concept of Finding Aids, *Journal of Korean Archival Management,* Vol. 3, No. 1 (March), 2003.

Research Grant Applications: 22 (does not include Informatics Affiliated Faculty)

Research Grants Awarded:

Computer Science

Neil Murray:
  National Science Foundation

Knowledge Compilation with Fast Response
$117,140

William Hedberg
  National Science Foundation

NSF IPA Assignment for Lenore Mullin
$216,619

Information Studies

Vincent Aceto
  IBM Corporation

Provision of Library Services
$209,350

Özlem Uzuner:
  National Library of Medicine

Informatics for Integrating Biology and the Bedside (i2b2)
$37,921

Institute for Informatics, Logics, and Security Studies

Tomasz Strzalkowski
  Central Intelligence Agency

HITIQA Technology Insertion
$160,000

Tomasz Strzalkowski
  Lockheed Martin Corporation

Technical Proposal for Event Summaries and the TOTC
$120,000

Tomasz Strzalkowski
  EC

Companions
$120,000

Tomasz Strzalkowski
  NIJ

ChatMinder
$39,000

Nicholas Webb
  National Science Foundation

Social Robotics
$326,752

Nicholas Webb, Jennifer Stromer-Galley
  Deliberative E-Rulemaking Decision Facilitation Project
  National Science Foundation

$164,262

Informatics

Informatics/ Physics

Kevin Knuth
  UAlbany FRAP award

Developing Robotic Explorers
$9,833

Informatics/ School of Criminal Justice

Janet Stamatel
  UAlbany FRAP award

Registered Sex Offenders and the Spatial Context of Crime Control
$10,000

Janet Stamatel
  UAlbany FINE award

Exploratory Research on Homicides in Croatia
$4,500

College of Computing and Information
Research Grants 2007-2008
Draft 9/4/08

Informatics Affiliated Faculty

Center for Technology in Government

Anthony Cresswell
  Republic of Turkey Ministry of Finance

Performance Management in the Public Sector
$96,442

Sharon Dawes

  National Science Foundation

Building and Sustaining an International Digital Government Research Community of Practice
$202,421

Sharon Dawes

  National Science Foundation

PhD Institute Supplement to International Digital Government Research Community Building
$183,693

Sharon Dawes
  Multiple Sponsors

Future Program Support and Other Operational Expenses
$12,450

Theresa Pardo
  United Nations

Development and Delivery of Record-Keeping Training
$18,121

Geography Department

Catherine Lawson
  US Department of Transportation

Year 20 AITE Fellowship
$30,000

Catherine Lawson
  Department of Public Health

Initiative for Healthy Infrastructure
$87,000

Catherine Lawson
  NYMTC

Travel Survey -Technical Assistance
$15,000

Catherine Lawson
  NYMTC

GPS Pilot Study
$15,000

Catherine Lawson
  NYSDOT

SWATH Project - Phases
$90,000

Information Technology Management

Sanjay Goel
  UAlbany

Analysis of Malicious Code on an Automated Quarantined Environment
$8,000

Sanjay Goel
  NYS Office of Cyber Security and Critical Infrastructure Coordination

Creating Data Classification Policies for New York State
$42,000

Public Administration

David McCaffrey
  NIJ

Program on Financial Market Regulation
$39,000

Other Support

UAlbany Selective Investment - Faculty	$150,000
KeyCorp – Junior FIRST LEGO League	$15,000
Alumni – Curriculum Development	$75,000/5 years

Computer Science

Neil Murray
Updating reduced implicate tries. *International Conference TABLEAUX 2007 - Analytic Tableaux and Related Methods.*
Reduced implicate/implicant tries. *International Symposium on Methodologies for Intelligent Systems - ISMIS.*
Efficient query processing with reduced implicate tries. *Journal of Automated Reasoning.*

Tomasz Strzalkowski
Advances In Open-Domain Question Answering (ed.).
Utilizing entity relation to bridge the language gap in cross-lingual question answering system. *NTCIR-2007.*
Research issues in the discovery and analysis of significant events. *INSA Research in America Summit.*
UAlbany's ILQUA at TREC2007. *TREC 2007.*
HITIQA: High-quality intelligence through interactive question answering. *Natural Language Engineering.*
A model for quantitative evaluation of an end-to-end question answering system. *Journal of the American Society for Information Science and Technology.*
Using interview data to identify evaluation criteria for interactive, analytical question-answering systems. *Journal of the American Society for Information Science and Technology.*
COLLANE: An experiment in computer-mediated tacit collaboration. *Journal of Natural Language Engineering.*

Information Studies

Deborah Lines Andersen
Public Library Systems in New York State: A History and Survey. *Journal of Library Administration and Management.*
Benchmarks: Citations, quotations, references and literature reviews. *Journal of the Association for History and Computing.*
Benchmarks: Roy Rosenzweig (August 6, 1950-October 11, 2007). *Journal of the Association for History and Computing*
Benchmarks: Digital documents. *Journal of the Association for History and Computing.*
Charting the Future of CDLC's Regional Bibliographic Databases Program: Results and Recommendations from a Three-day Group Facilitation Discussion. Consulting report for the Capital District Library Council.

Philip Eppard
Creating and preserving digital records in government, science, and the arts.
Interpares Interpreted. 2d. Ed.
Special issue of *Libraries and the Cultural Record. International Conference on the History of Records & Archives.*

Terrence Maxwell
A synergistic alternative to readers' advisory services: managing customer knowledge. *COLIS.*
The dynamics of bilateral intellectual property negotiations: taiwan and the united states. *Government Information Quarterly.*

Abebe Rorissa
Joining research and practice: Social computing and information science. Proceedings of the 70th Annual Meeting of the American Society for Information Science and Technology.
User generated descriptions of individual images versus labels of groups of images: A comparison using basic level theory. *Information Processing & Management.*
Theories of cognition and image categorization: What category labels reveal about basic level theory. *Journal of the American Society for Information Science and Technology.*
Exploring the relationship between feature and perceptual visual spaces. *Journal of the American Society for Information Science and Technology.*
Relationships between perceived features and similarity of images: A test of Tversky's Contrast Model. *Journal of the American Society for Information Science and Technology.*

Joette Stefl-Mabry
Trans-generational web development learning experience in PBL. In O.-S. Tan (Ed.), *Problem-based learning and creativity.*
Hearing voices: Teachers reveal ICT use and needs. *American Educational Research Association Conference Proceedings.*

Özlem Uzuner
Three approaches to automatic assignment of icd-9-cm codes to radiology reports. *American Medical Informatics Association.*
Evaluating the state-of-the-art in automatic de-identification. *JAMIA.*
Identifying patient smoking status from medical discharge records. *JAMIA.*
A de-identifier for medical discharge summaries. *Arificial Intelligence in Medicine.*

Xiaojun Yuan
Supporting multiple information-seeking strategies in a single system framework. *The 30th Annual International ACM SIGIR Conference.*
The thematic and citation landscape of data & knowledge engineering (1985-2007). *Journal of Data Knowledge & Engineering.*
Evaluating an integrated system supporting multiple information-seeking strategies. *Journal of American Society of Infomation Science and Technology.*

Informatics

Informatics/ Education

Peter Shea
Technology-enhanced education and millennial students in higher education. *Metropolitan Universities.*
Validating a measurement tool of presence. *e-Mentor.*

Informatics/ Geography & Planning

Monika Calef
Human influences on wildfire in Alaska from 1988 through 2005: An analysis of the spatial patterns of human impacts. *Earth Interactions.*
The effects of different climate input data sets on simulated carbon dynamics in the Western Arctic. *Earth Interactions.*
Increasing wildfire in the boreal forest: causes, consequences, and pathways to potential solutions of a wicked problem. *Bioscience.*
Changing human-fire interactions in Alaska's boreal forest: Sustainability implications of the local effects of global changes. *Bioscience.*
Loss of soil calcium in steppe soil and climatically driven sink of atmospheric carbon. *Global Biogeochemical Cycles.*

Informatics/ Physics

Kevin Knuth
Lattice theory, measures and probability. *Bayesian Inference and Maximum Entropy Methods in Science and Eng. (MaxEnt 2007).*
Towards commanding unmanned ground vehicle movement in unfamiliar environments using unconstrained English: Initial research results. *11th Annual International Command and Control Research and Technology Symposium.*
EEG-based estimation of alertness and mental fatigue: convergent evidence for a three-state model. *International Conference on Human-Computer Interaction.*
Analysis of intrusion detection and attack proliferation in computer networks. *Bayesian Inference and Maximum Entropy Methods in Science and Eng (MaxEnt 2007).*
Bayesian source separation applied to identifying complex organic molecules in space. *Proceedings of the IEEE Statistical Signal Processing Workshop.*
Estimating background spectra. *Bayesian Inference and Maximum Entropy Methods in Science and Eng (MaxEnt 2007).*
Designing intelligent instruments. *Bayesian Inference and Maximum Entropy Methods in Science and Eng (MaxEnt 2007).*

Informatics/ Political Science

Reynold Koslowski
Room for Progress: Reinventing Euro-Atlantic Borders for a New Strategic Environment. Report to the European Commission Delegation.

Informatics/ School of Criminal Justice

Janet Stamatel
The Americas. In *Crime and Punishment around the World.*
Turkmenistan. In *Crime and Punishment around the World.*
Contributions of cross-national research at the beginning of the 21st century. *Handbook on Criminology and Deviance.*
Using mortality data to refine our understanding of homicide patterns in select post-communist countries. *Homicide Studies.*
An overview of publicly available quantitative cross-national crime data. *IASSIST Quarterly.*
Correlates of national-level homicide variation in post-communist East-Central Europe. *Social Forces.*

Informatics Affiliated Faculty

Robert Bangert-Drowns
Cyber security instruction for middle level children.
The interplay of problem-based and case-based learning in the "teaching hospital".

Suraj Commuri
An enlargement of the notion of consumer vulnerability. *Journal of Macromarketing.*

Sharon Dawes
Evolution and continuing challenges of e-governance. *Public Administration Review.*

Virginia Eubanks
Participatory policy analysis. *Encyclopedia of Public Administration and Public Policy.*
Double-bound: Power and participation in science and technology policy-making. *Frontiers: A Journal of Women's Studies.*
Trapped in the Digital Divide: The distributive paradigm in community informatics. *The Journal of Community Informatics.*

Ingrid Fisher
A prototype system for the temporal reconstruction of financial accounting standards. *International Journal of Accounting Information Systems.*

Sanjay Goel
2nd Annual Symposium on Information Assurance (ed.).
Mapping engineering design processes onto a service grid: Turbine design optimization. *Concurrent Engineering Research and Applications.*
Integrating the global enterprise using Six Sigma: Business process reengineering at General Electric Wind Energy. *International Journal of Production Economics.*
Can business process reengineering lead to security vulnerabilities: Analyzing the reengineered process. *International Journal of Production Economics.*

Teresa Harrison
A new paradigm for designing E-government: Web 2.0 and experience design. *DG 2008, the 9th National Conference on Digital Government Research.*
Participative processes in organizations. *The Blackwell International Encyclopedia of Communication.*
Geographic information technologies, structuration theory, and the World Trade Center crisis. *Journal of the American Society for Information Science and Technology.*

Catherine Lawson
Visualizations: Using archived data to detect trucks in the traffic stream and to determine their relationship to business clusters.
GPS pilot project phase one: Literature and product review.
Visualization tool development: Using GIS and archived traffic data in a new environment of functionality.

GPS Pilot Project Phase Two: Unit comparison, field tests, and market analysis.
Children's active commuting to school: Current knowledge and future directions. *Preventive Chronic Disease.*

Paul Miesing
Social venture business strategies for reducing poverty. *Innovative Approaches to Reducing Global Poverty.*
Exercise: scenario planning. *Organization Management Journal.*
NGOS, social venturing, and community citizenship behavior. *Business & Society.*

James Mower
AutoCarto 2008.
Creating and delivering augmented scenes. *International Journal of GIS.*

Priya Nambisan
Online health communities: Implications for service innovation in health care organizations. *Academy of Innovation and Entrepreneurship.*
Conceptualizing customers online community experience (OCE): An experimental study. *International Journal of Internet Marketing and Advertising.*
Online community experience (OCE) and its Impact on customer attitudes: An experimental study. *International Journal of Electronic Marketing and Retailing.*
How to profit from a better virtual customer environment. *MIT Sloan Management Review.*

Eliot Rich
System dynamics applications to public policy. *Encyclopedia of Complexity.*
Keeping the flame alive: sustaining a successful knowledge management program. *Case Studies in Knowledge Management.*
Using a mixed data collection strategy to uncover vulnerability black markets. *Workshop on Infromation Security and Privacy (WISP).*
IT project management, concept modeling, and blind dates. *International System Dynamics Conference.*
Exploring the semantic validity of questionnaire scales,. *Hawaii International Conference on System Sciences.*
Management fads and information delays. *Journal of Business Research.*
E-zpass and the Ohio Turnpike: Adoption and integration of electronic toll collection. *Journal of Cases in Information Technology.*
Overcoming organizational challenges to secure knowledge management. *Information System Frontiers.*
A behavioral theory of insider-threat risks: A system dynamics approach. *ACM Transactions on Modeling and Computer Simulation.*
Toward viable information security reporting systems. *Information Management & Computer Security.*
Learning from large scale IT projects: Capability Gaps that promote project failure. *California Management Review.*

Jennifer Stromer-Galley
World Wide Web (political uses). *Encyclopedia of Political Communication.*
Measuring deliberation's content: A content analysis scheme. *Journal of Public Deliberation.*
The digital dollhouse: Context and social norms in The Sims Online. *Games & Culture.*
Agreement and disagreement in group deliberation and its consequences: Satisfaction, engagement, and opinion reevaluation. *Political Communication.*
Coherence in political computer-mediated communication: Comparing topics in chat. *Discourse & Society.*

Kinsun Tam
KaDo: An advanced data modeling, database design, database implementation, and information retrieval case for the accounting information systems class. *Journal of Information Systems.*

Giri Tayi
Decision support system for supply chain efficiency and forecast quality in uncertain environments. *DSI International conference.*
An empirical investigation of the process choice decision in offshore software develpoment. *International Symposium of Information Systems (ISIS 2007).*
A decision support framework for exploring supply chain tradeoffs. *International Journal of Production Economics.*
Analysis of machine learning methods for network intrusion detection: a data quality perspective. *International Journal of Services Sciences.*

College of Computing and Information
Faculty Honors and Awards 2007-2008
Draft 9/4/08

Awards

Reynold Koslowski
   Senior Transatlantic Academy Fellowship
   German Marshall Fund

Monika Calef
   Travel Award
   CAS

Ingrid Fisher
   Best Paper Award-16th Annual Research Workshop on: AI/ET- Annual Meeting of AAA
   AI/ET Section of the American Accounting Association

Ingrid Fisher
   Significant Service to the Journal of Emerging Technologies in Accounting
   Editor of the Journal of Emerging Technologies in Accounting

Kinsun Tam
   Best Education Paper Award (with Guido Geerts)
   American Accounting Association Information Systems Section, Mid-Year Meeting

Public Recognition

Ozlem Uzuner
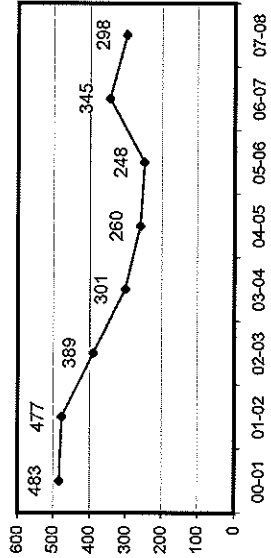   *Diagnostic Imaging Magazine's PACSweb interview.*

Ozlem Uzuner
   UAlbany Research magazine

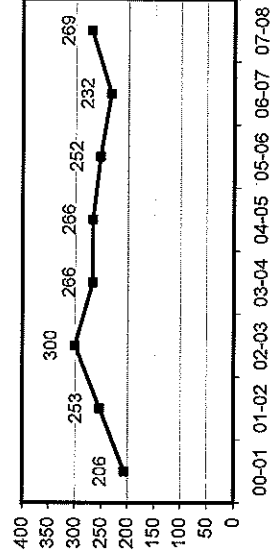# College of Computing and Information - Performance Measures, September 2008

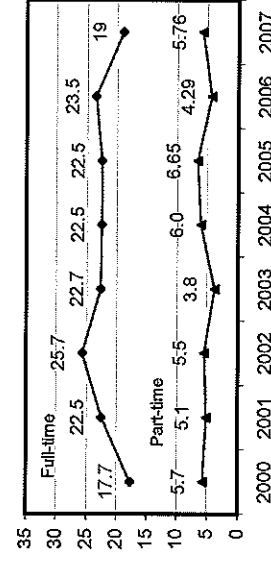## UNDERGRADUATE EDUCATION
Annual Average Undergraduate Student FTE

483 477 389 301 260 248 345 298
600 500 400 300 200 100 0
00-01 01-02 02-03 03-04 04-05 05-06 06-07 07-08

GRADUATE EDUCATION
Annual Average Graduate Student FTE

253 300 266 266 252 232 269
206
400 350 300 250 200 150 100 50 0
00-01 01-02 02-03 03-04 04-05 05-06 06-07 07-08

FACULTY
Faculty FTE (CASA)[1,2]

Full-time 25.7 22.7 22.5 22.5 23.5 19
22.5 17.7
Part-time 5.7 5.1 5.5 3.8 6.0 6.65 4.29 5.76
35 30 25 20 15 10 5 0
2000 2001 2002 2003 2004 2005 2006 2007

Number of Majors (1st and 2nd)

556 493 393 319 285 276 256
529
600 500 400 300 200 100 0
2000 2001 2002 2003 2004 2005 2006 2007
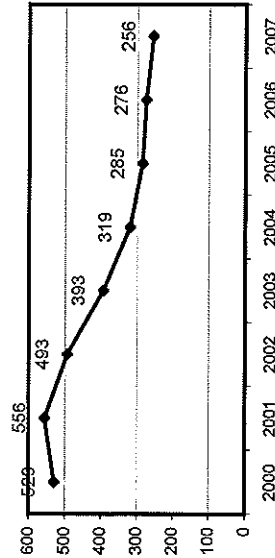
Graduate Student Headcount

Master's
Doctoral
Certificate
350 300 250 200 150 100 50 0
2000 2001 2002 2003 2004 2005 2006 2007

Overall Student Faculty Ratio (CASA)[1]

25.2 25.6 21.2 21.1 15.7 10.0 16.8 18.4
75 60 45 30 15 0
2000 2001 2002 2003 2004 2005 2006 2007
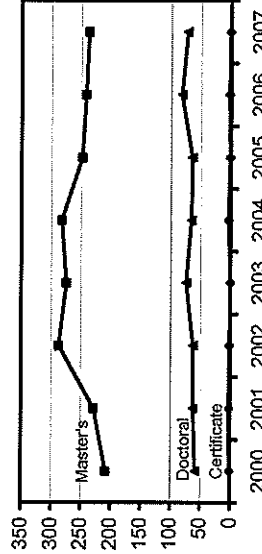
Bachelor's Degrees Awarded

134 180 157 142 87 85
136
87
250 200 150 100 50 0
00-01 01-02 02-03 03-04 04-05 05-06 06-07
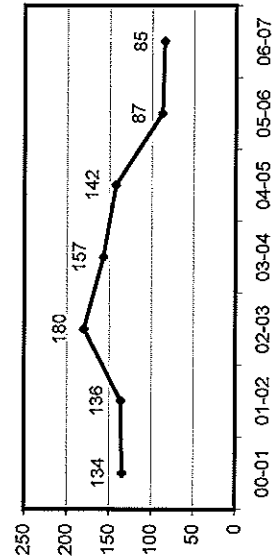
Graduate Degrees Awarded

110 131 133 147 129 118
Master's 87
Doctoral 5 4 7 8 5 5 5
175 150 125 100 75 50 25 0
00-01 01-02 02-03 03-04 04-05 05-06 06-07
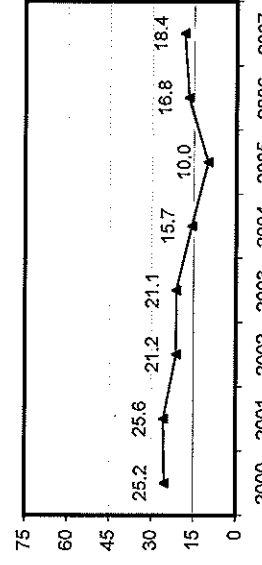
RESEARCH
Total Externally Funded Research Expenditures
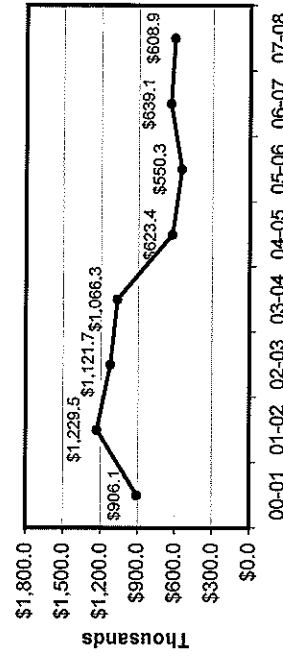
$1,229.5 $1,121.7 $1,066.3 $623.4 $550.3 $639.1 $608.9
$906.1
$1,800.0 $1,500.0 $1,200.0 $900.0 $600.0 $300.0 $0.0
Thousands
00-01 01-02 02-03 03-04 04-05 05-06 06-07 07-08

College of Computing and Information
Research Proposal Development Award
Revised 8/28/08

The Dean will fund up to two research proposal development initiatives in Spring '09 through one-course "buyouts."

How to Apply:

Attend the October "Food for Thought" to exchange preliminary research ideas.

Submit a <u>one-page</u> description of your research initiative by <u>December 1</u> to Brian Gabriel.

- Provide the title and a description of the research project for which you and your colleagues will develop a grant proposal.

- Name two or more faculty members who will collaborate in conducting the research, at least one of whom must be a member of the CCI faculty, and indicate whose time will be "bought out" to work on developing the grant proposal.

- Name at least one funding program to which you will submit your research grant application. A copy of the funding program announcement or information about the funding agency should be appended.

Preference will be given to research projects that:

- Involve CCI faculty members from more than one department.

- Fit within one of CCI's research themes:
  Information, Government, & a Democratic Society <u>or</u> *Computing and Cognition.*

- Match the interests of specific funding programs.

College of Computing and Information
Diversity Committee
Revised 8/29/08

Establishing a Diversity Committee will formalize and recognize the involvement of faculty and students in our efforts to increase the participation of underrepresented populations in IT.

Following is a proposed charge to the CCI Diversity Committee, pending adoption by the faculty.

- To identify the changes required to increase and sustain diversity in both the undergraduate and graduate programs, and engage the faculty in making those changes.

- To gather supporting data as required.

- To select, adapt, and amplify recommendations from the forthcoming NCWIT Extension Service report (January 2009) and work with the faculty to define an integrated action plan to which the faculty is internally committed.

- To coordinate efforts to implement those actions.

- To document and report the changes and their effects.

  o For undergraduate students, success will be measured by achievement of an acceptable percentage (to be defined) of students from underrepresented populations in the target majors, and related rates of graduation and entry into graduate programs.

  o For graduate students, success will be measured by acceptable percentages (to be defined) of applications, percentage reaching critical milestones, including passing qualifying exams, successfully defending proposals and dissertations, and obtaining quality professional positions.

  o For both the undergraduate and graduate programs, the academic quality of underrepresented populations in target majors is to remain the same or improve.

COLLEGE OF COMPUTING AND INFORMATION
UNIVERSITY AT ALBANY State University of New York

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News and Events

CCI at the Campus Center

Date: September 10, 2008, 11:00 - 3:00 pm
Location: Campus Center Atrium
Cost: Free

Stop by our table in the Campus Center to learn more about CCI and enter the drawing for an iPod!

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Technology Tower Tours

Date: September 16, 2008, 5:00 - 8:00 pm
Location: Dutch Quad Dining Hall
Cost: Free

Join CCI students, faculty and industry reps for dinner and to learn about computing and info.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Technology Tower Tours

Date: September 23, 2008, 5:00 - 8:00 pm
Location: State Quad Dining Hall
Cost: Free

Join CCI students, faculty and industry reps for dinner and to learn about computing and info.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

The 8th Annual Grace Hopper Celebration of Women in Computing Conference

Date: October 1 - 4, 2008
Location: Keystone Resort, Colorado
Website: http://gracehopper.org/2008/

If you are a CCI student interested in attending the GHC, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Gaming: Behind the Scenes

Speaker: Tobi Saulnier, 1st Playable Productions
Date: October 14, 2008, 5:00 - 6:30 pm
Location: LSRB Auditorium
Cost: Free and open to the public

Hear about the gaming industry from one of the area's leading experts!

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Technology Tower Tours

Date: October 21, 2008, 5:00 - 8:00 pm
Location: Colonial Quad Dining Hall

University at Albany - College of Computing and Information - News a...

http://www.albany.edu/cci/news.shtml

Cost: Free

Join CCI students, faculty and industry reps for dinner and to learn about computing and info.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Career in IT, Not Just Programming?

Date: October 28, 2008, 6:00 - 7:30 pm
Location: Assembly Hall
Cost: Free and open to all students

Considering a career in computing and information, but looking for something besides programming? Join us to learn about opportunities and plan your future.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Linda Betz talks about women in computing and her experience with IBM

Date: November 3, 2008, 12:00 - 2:00 pm
Location: Patroon Room Cafe
Cost: Free

Join women students and faculty for lunch with our guest, Linda Betz who will talk about women in computing and her experience with IBM.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Women in Tech Career Panel

Date: November 3, 2008, 6:00 - 7:30 pm
Location: Terrace Lounge
Cost: Free and open to all students

Our panelists will represent an array of women prominent in their fields from a variety of aspects of technology.

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

First Annual Junior First Lego League Expo

Date: November 22, 2008, 1:00 – 3:30 pm
Location: Campus Center Ballroom
Cost: Free for attendees, Contact Jennifer Goodall for cost for participation

CCI will host the First Annual Junior First Lego League Expo in the Capital District. Climate Connections is the 2008 theme! Anyone is invited to attend to see the projects! If you are interested in coaching or mentoring or know a 6-9 year old child who would like to be on a team or if you already have a team that would like to participate, contact Jennifer Goodall at jgoodall@uamail.albany.edu. or 518-956-8245.

More >>

Intramural Competition using the Wii

Date: December 13, 2008, 12:00 - 3:00 pm
Location: Campus Center Ballroom
Cost: Free, for CCI students and faculty only

All CCI students are invited to participate in an intramural competition using the Wii. Food, fun, and prizes!

If you are interested, please contact Jennifer Goodall at jgoodall@uamail.albany.edu or 518-956-8245

Please send questions or comments about this site to:
emma@albany.edu