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"Knowledge is a fluid mix of framed experience, values, contextual information and expert insight that provides a framework for evaluating and incorporating new experiences and information. It originates and is applied in the minds of knowers. In organizations, it often becomes embedded not only in documents or repositories but also in organizational routines, processes, practices, and norms.”

Davenport & Prusak, in *Working Knowledge*
Overview of the Field

- Knowledge representation, organization, sharing, extraction, retrieval, and use
- Reasoning with knowledge
- Individual, organizational and social setting in which knowledge is developed and harnessed
Topics

- Classification, indexing, clustering, web-mining, text-mining
- Retrieval modeling, Information seeking behaviour
- Knowledge representation, knowledge bases
- Logics, reasoning
- Human Computer Interaction
- Social Networks, Complex Networks
- Statistical natural language processing, linguistic analysis, text analysis
- Document modeling, document engineering
- Markup languages, document grammars
- Semantic web, ontology engineering
Faculty, Research Interests

- Deborah Andersen
  - Research methods and statistics, electronic information access technologies and their users, public libraries

- Philip B. Eppard
  - Archives, records administration, preservation management, electronic records, and history of recorded information

- Ingrid Fisher
  - Information retrieval, automatic thesaurus construction, information semantics, and assurance in business information systems

- Jagdish Gangolly
  - Knowledge representation issues in accounting, concept classification in accounting, and security in formal modeling of internal controls auditing

- Hemalata Iyer
  - Classification theory, information organization and retrieval, natural language representation
Faculty, Research Interests

- Paul Miesing
  - Strategic vision, organizational change and transformation, technology transfer, business and education use of information technology

- Neil Murray
  - Automated deduction, extension of deductive techniques to various non-classical logics, including multiple-valued, annotated and fuzzy logic, knowledge compilation

- Abebe Rorrisa
  - Multimedia information organization and retrieval, measurement and scaling of users information need and their perceptions of multimedia information sources and services, the use/acceptance/Adoption and impact of information and communication technologies (ICTs)
Faculty, Research Interests

▶ Ozlem Uzuner
  ▶ Medical informatics, medical language processing, electronic health records, natural language understanding, information retrieval, information extraction, privacy, security, intellectual property, and user interfaces

▶ Xiaojun (Jenny) Yuan
  ▶ Information-seeking behavior, information retrieval, user interface design and evaluation, information visualization, usability testing, human-computer interaction, and digital libraries
Recent Faculty Publications

▶ Ingrid Fisher


Recent Faculty Publications

- **Jagdish S. Gangolly**
Paul Miesing

Recent Faculty Publications

Neil Murray

Abebe Rorissa

Recent Faculty Publications

➤ Ozlem Uzuner


KOM Faculty on Journal Editorial Boards

- Bulletin of the American Society for Information Science & Technology
- Journal of Information Systems
- Research in Management Education and Development
- E-Services Journal
- Journal of Emerging Technologies in Accounting
- International Journal of Digital Accounting Research
- Journal of Emerging Technologies in Accounting
Some Recent KOM Related Doctoral Dissertations

▶ 2011
  ▶ Goldstein, Ira, *Automated Classification of Narrative in Medical Reports using Natural Language Processing* (Chair: Ozlem Uzuner/ISD)

▶ 2010
  ▶ Burk, Robin, *Toward a theory-based natural language capability in robots and other embodied agents: Evaluating Haussess slim theory and database semantics* (Chair: Haas/CSI)

▶ 2009
  ▶ Goel, Sunita, *Using Natural Language Processing to Detect Fraud From Qualitative Content of company annual Reports* (Chair: Gangolly/INF)

▶ 2006 (GIS)
  ▶ Maggie Cusack, *A Prototype in Geographic Information Systems Using Archived Intelligent Transportation Systems Data for Multidimensional Analysis* (Chair: Lawson/GEOG)
Some Recent KOM Related Doctoral Dissertations

- 2002

- 2002
  - Jihong Zeng, *Using Keywords/Phrases in Automatically Generating Hypertext Links: An Exploratory Study* (Chair: Bloniarz/CSI)

- 2001
  - Brook Wu, *Automatic Concept Organization: Organizing Concepts from Text through Probability of Co-occurrence Analysis (POCA)* (Chair: Gangolly/ACCTG & LAW)

- 1999
  - Brett A. Stone, *Corporate Social Responsibility and Institutional Investment* (Chair: Gangolly/ACCTG & LAW)
Some Recent KOM Related Doctoral Dissertations

1998
- Thomas Tribunella, *A Method of Organizing and Implementing Information Systems for Generally Accepted Accounting Principles* (Chair: Gangolly/ACCTG & LAW)

1996
- Deborah Andersen, *User Driven Technologies: Assessing the Information Needs of History Faculty as a Special User Program* (Chair: Galvin)

1995
- Mark Giguere, *Electronic Document Description Standards* (Chair: Holstein/MSIS)
Key Resources

- http://dlist.sir.arizona.edu/2402/
- http://subjectobject.net/2007/01/20/theories-of-knowledge-organization/
Key Journals

- J of the Amer. Society for Information Science & Technology
- ACM Transactions on Information Systems
- IEEE transactions on Data and Knowledge Engineering
- Artificial Intelligence
- J of Artificial Intelligence Research
- Knowledge Organization
- Artificial Intelligence and Law
- J of Information Processing and Management (IPM)
- J of Documentation
- J of Human-Computer Studies
- J of Information Science
- J of Information Retrieval
- J of Information Research
- J of data & Knowledge Engineering
- Most ACM, IEEE, INFORMS, SIAM DSI, ... journals publish papers on various aspects of KOM.
Key Associations, Meetings, Conferences

- International Society for Knowledge Organisation
- ASIST
- ACM
- IEEE-CS
- ICAIL
- AAAI
- ISKO
- INFORMS
- DSI
- AAA (Section SET)
Hiring Conferences

- ASIST (iSchools)
- ICIS (Business Schools & iSchools)
- AMCIS (Business Schools & iSchools)
- INFORMS (Business Schools)
- ACM KDD, MOD (CSI, Business Schools, iSchools)
- HICSS (Business Schools, iSchools)
- AAA (Business Schools)