

Curriculum Vitae for William M. Pottenger, Ph.D.

The Center for Discrete Mathematics and Theoretical Computer Science
and the Department of Computer Science
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I. Education and Professional Experience

Education

Ph.D. in Computer Science, University of Illinois at Urbana-Champaign
Dissertation: *Theory, Techniques and Experiments in Solving Recurrences in Computer Programs*
Director of Dissertation and Chair of Doctoral Committee: David A. Padua
Doctoral Committee: Roy H. Campbell, Duncan H. Lawrie, Bruce R. Schatz
Graduation Date: May 1997

M.S. in Computer Science, University of Illinois at Urbana-Champaign
Thesis: *Induction Variable Substitution and Reduction Recognition in the Polaris Parallelizing Compiler*
Director of Thesis: Rudolf Eigenmann
Graduation Date: May 1994

B.S. in Computer Science, University of Alaska, Fairbanks
Graduation Date: May 1989

Professional Experience

Department of Homeland Security Center of Excellence in Command, Control and Interoperability

Director of Transition, 2009-present

- ◇ Directing technology transition for \$15M DHS S&T Center of Excellence homed at Rutgers University

Rutgers University, Computer Science and DIMACS

Associate Research Professor, 2006-present

- ◇ Performing research in Data Analytics, Higher Order Learning and Sensemaking
- ◇ Directing the research of Ph.D. and M.S. graduate students as well as undergraduate researchers
- ◇ Serving as a referee for journals, on program committees, proposal review panels and in the community

Intuidex, Inc.

Chief Executive Officer, 2006-present

- ◇ CEO for high-tech start-up developing software solutions for visual and data analytics
- ◇ Board of Directors for LAMBDA TD Software, Inc.

Lehigh University, Computer Science and Engineering Department

Assistant Professor, 2000-2006

- ◇ Performed research in Text Mining, Information Extraction, and Parallel and Distributed Data Mining
- ◇ Directed the research of Ph.D. and M.S. graduate students as well as undergraduate researchers
- ◇ Taught graduate and undergraduate courses in Computer Science and Engineering
- ◇ Served as a referee for journals, on program committees, proposal review panels and in the community

National Center for Supercomputing Applications (NCSA), University of Illinois at Urbana-Champaign

Research Scientist, 1998-2000

- ◇ Led a research and development group in Text/Data Mining and Parallel and Distributed Data Mining
- ◇ Directed the research of M.S. graduate students as well as undergraduate researchers

II. Publications and Creative Activities

Selected Refereed Journal Articles (Full text refereed; ISI impact factor noted where available)

1. W. Blume, R. Doallo, R. Eigenmann, J. Grout, J. Hoeflinger, T. Lawrence, J. Lee, D. Padua, Y. Paek, W. Pottenger, L. Rauchwerger, and P. Tu. (1996) *Parallel Programming with Polaris*. IEEE Computer, volume 29, number 12, pages 78-82. (1.552)
2. William M. Pottenger, Miranda R. Callahan and Michael A. Padgett. (2001) *Distributed Information Management*. Annual Review of Information Science and Technology, volume 35, pages 79-113. (2.864)
3. Holzman, L. E., Fisher, T. A., Galitsky, L. M., Kontostathis, A., and Pottenger, W. M. (2004) *A Software Infrastructure for Research in Textual Data Mining*. The International Journal on Artificial Intelligence Tools, volume 14, number 4, pages 829-849.
4. Wu, T. and Pottenger, W. M. (2005) *A Semi-Supervised Active Learning Algorithm for Information Extraction from Textual Data*. Journal of the American Society for Information Science and Technology, JASIST, volume 56, number 3, pages 258-271. (1.473)
5. Kuntraruk, J., Pottenger, W. M. and Ross, A. M. (2005) *Application Resource Requirement Estimation in a Parallel-Pipeline Model of Execution*. IEEE Transactions on Parallel and Distributed Systems, volume 16, number 12, pages 1154-1165. (1.183)
6. Li, S. Z., Wu, T., and Pottenger, W. M. (2005) *Distributed Higher Order Association Rule Mining Using Information Extracted from Textual Data*. SIGKDD Explorations, volume 7, issue 1, pages 26-35.
7. Kontostathis, A. and Pottenger, W. M. (2006) *A Framework for Understanding LSI Performance*. Information Processing & Management, volume 42, issue 1, pages 56-73. (1.179)
8. Kasik, D., Ebert, D., Lebanon, G., Park, H. and Pottenger, W. M. (2009) *Data Transformations and Representations for Information Generation*. Information Visualization, volume 8, number 4, 275-285. DOI:10.1057/IVS.2009.27.
9. Ribarsky, W., Fisher, B., Turner, A. E. and Pottenger, W. M. (2009) *Science of Analytical Reasoning*. Information Visualization, volume 8, number 4, pages 254-262. DOI:10.1057/IVS.2009.28.
10. Ganiz, M. C., Pottenger, W. M. and George, C. (2010) *Higher Order Naïve Bayes: A Novel Non-IID Approach to Text Classification*. IEEE Transactions of Knowledge and Data Engineering (TKDE). (Forthcoming)

Selected Referred Book Chapters (Full text refereed)

11. W. Blume, R. Eigenmann, K. Faigin, J. Grout, J. Hoeflinger, D. Padua, P. Petersen, W. Pottenger, L. Rauchwerger, P. Tu, and S. Weatherford. (1994) *Polaris: Improving the Effectiveness of Parallelizing Compilers*. *Languages and Compilers for Parallel Computing, Lecture Notes in Computer Science 892*. K. Pingali, U. Banerjee, D. Gelernter, A. Nicolau, and D. Padua, Eds., Springer-Verlag.
12. William M. Pottenger, Yong-Bin Kim and Daryl D. Meling. (2001) HDDITTM: Hierarchical Distributed Dynamic Indexing. In *Data Mining for Scientific and Engineering Applications*, Robert Grossman, Chandrika Kamath, Vipin Kumar and Raju Namburu, Eds., Kluwer Academic Publishers.
13. William M. Pottenger and Ting-hao Yang. (2001) *Detecting Emerging Concepts in Textual Data Mining*. In *Computational Information Retrieval*, Michael Berry, Ed., SIAM, Philadelphia, PA.
14. April Kontostathis, Leon Galitsky, William M. Pottenger, Soma Roy and Daniel J. Phelps. (2003) *A Survey of Emerging Trend Detection in Textual Data Mining*. In *A Comprehensive Survey of Text Mining*, Michael Berry, Ed., Springer-Verlag.
15. April Kontostathis and William M. Pottenger. (2005) *Identification of Critical Values in Latent Semantic Indexing*. In *Data Mining: Foundations, Methods, and Applications*, T. Y. Lin, S. Ohsuga, C. J. Liau and S. Tsumoto, Eds., Springer-Verlag.

Selected Refereed Conference Publications (Full text refereed)

16. Bill Pottenger and Rudolf Eigenmann. (1995) *Idiom Recognition in the Polaris Parallelizing Compiler*. In the *Proceedings of the 9th ACM International Conference on Supercomputing*, Barcelona, Spain, July.

17. Yi-Ming Chung, William M. Pottenger, and Bruce R. Schatz. (1998) Automatic Subject Indexing Using an Associative Neural Network. In the *Proceedings of the Third ACM Conference on Digital Libraries '98*, Pittsburgh, PA, June.
18. William M. Pottenger. (1998) The Role of Associativity and Commutativity in the Detection and Transformation of Loop-Level Parallelism. In the *Proceedings of the 12th ACM International Conference on Supercomputing*, Melbourne, Australia, July.
19. Fabien D. Bouskila and William M. Pottenger. (2000) The Role of Semantic Locality in Hierarchical Distributed Dynamic Indexing. In the *Proceedings of the 2000 International Conference on Artificial Intelligence (IC-AI 2000)*, Las Vegas, Nevada, June.
20. Jirada Kuntraruk and William M. Pottenger. (2001) Massively Parallel Distributed Feature Extraction in Textual Data Mining Using HDDITM. In the *Proceedings of The Tenth IEEE International Symposium on High Performance Distributed Computing (HPDC-10)*. San Francisco, CA, August.
21. Tianhao Wu and William M. Pottenger. (2003) A Semi-supervised Algorithm for Pattern Discovery in Information Extraction from Textual Data. In the *Proceedings of the Seventh Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-03)*. Seoul, Korea, April/May.
22. Holzman, L. E., Fisher, T. A., Kontostathis, A., and Pottenger, W. M. (2003) A Software Infrastructure for Research in Textual Data Mining. In the *Proceedings of the 15th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'03)*. Sacramento, CA, November.
23. Faisal M. Khan, Mark A. Arnold and William M. Pottenger. (2004) Finite Precision Analysis of Support Vector Machine Classification in Logarithmic Number Systems. In the *Proceedings of the EUROMICRO Symposium on Digital System Design*. Rennes, France, August/September.
24. Kontostathis, April, Pottenger, William M. and Davison, Brian D. (2004) Assessing the Impact of Sparsification on LSI Performance. In the *Proceedings of the 2004 Grace Hopper Celebration of Women in Computing Conference*. Chicago, IL, October.
25. Faisal M. Khan, Mark A. Arnold and William M. Pottenger. (2005) Hardware-Based Support Vector Machine Classification in Logarithmic Number Systems. In the *Proceedings of the 2005 IEEE International Symposium on Circuits and Systems*. Kobe, Japan, May.
26. Murat Can Ganiz, William M. Pottenger, Sudhan Kanitkar, Mooi Choo Chuah. (2006) Detection of Interdomain Routing Anomalies Based on Higher-Order Path Analysis. In the *Proceedings of the Sixth IEEE International Conference on Data Mining (ICDM)*. Hong Kong, December.
27. Li, S., Janneck, C. D., Belapurkar, A., Ganiz, M. C., Yang, X., Dilsizian, M. J., Wu, T., Bright, J. and Pottenger, W. M. (2007) Mining Higher-Order Association Rules from Distributed Named Entity Databases. In the *Proceedings of the IEEE International Conference on Intelligence and Security Informatics 2007 (ISI 2007)*, New Brunswick, NJ, May.
28. Menon, V. and Pottenger, W. M. (2009) A Higher Order Collective Classifier for Detecting and Classifying Network Events. In the *Proceedings of the IEEE International Conference on Intelligence and Security Informatics 2009 (ISI 2009)*.
29. Ganiz, M. C., Lytkin, N. I. and Pottenger, W. M. (2009) Leveraging Higher Order Dependencies Between Features for Text Classification. In the *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)*. Bled, Slovenia, September.
30. Pottenger, W. M., Kelly, C. A. and Willett, H. C. (2010) *Emerging Applications of Statistical Relational Learning in Counterterrorism and Law Enforcement*, Terrorism Incidents Conference, July.
31. George, C. and Pottenger, W. M. (2011) *First Order Naïve Bayes*. International Conference on Data Engineering and Internet Technology. (Under Review)
32. Edwards, A. and Pottenger, W. M. (2011) *Higher Order Q-Learning*. IEEE Symposium on Adaptive Dynamic Programming and Reinforcement Learning. (Under Review)
33. Polverini, A. B. and Pottenger, W. M. (2011) *Using Clustering to Detect Chinese Censorware*. IEEE DSN (Dependable Systems and Networks). (Under Review)

Selected Workshop Publications (Full text refereed unless otherwise noted)

34. W. Blume, R. Eigenmann, K. Faigin, J. Grout, J. Hoeflinger, D. Padua, P. Petersen, W. Pottenger, L. Rauchwerger, P. Tu, and S. Weatherford. (1994) Polaris: the Next Generation in Parallelizing Compilers. In the *Proceedings of the Seventh Workshop on Languages and Compilers for Parallel Computing*, Ithaca, New York, August.

35. W. Blume, R. Eigenmann, K. Faigin, J. Grout, J. Lee, T. Lawrence, J. Hoeflinger, D. Padua, Y. Paek, P. Petersen, B. Pottenger, L. Rauchwerger, P. Tu and S. Weatherford. (1996) Restructuring Programs for High-Speed Computers with Polaris. In the *Proceedings of the 1996 ICPP Workshop on Challenges for Parallel Processing*, August.
36. R. Bader, M., Callahan, D. Grim, J. Krause, N. Miller and W. M. Pottenger. (2001) The Role of the HDDI™ Collection Builder in Hierarchical Distributed Dynamic Indexing. In the *Proceedings of the Textmine '01 Workshop*, First SIAM International Conference on Data Mining, Chicago, IL, April. (Note: Invited paper.)
37. Tianhao Wu, Faisal M. Khan, Todd A. Fisher, Lori A. Shuler and William M. Pottenger. (2002) Posting Act Tagging Using Transformation-Based Learning. In the *Proceedings of the Workshop on the Foundation of Data Mining and Discovery*, IEEE International Conference on Data Mining (ICDM'02). Terrsa, Maebashi, Japan, December; also in *Data Mining: Foundations, Methods, and Applications*, T. Y. Lin, S. Ohsuga, C. J. Liao and S. Tsumoto, Eds., Springer-Verlag.
38. April Kontostathis and William M. Pottenger. (2003) A Framework for Understanding LSI Performance. In the *Proceedings of the ACM SIGIR Workshop on Mathematical/Formal Methods in Information Retrieval*, 26th Annual International SIGIR Conference, Toronto, Canada, July/August.
39. Ganiz, M. C., Pottenger, W. M. and Yang, X. (2006) Link Analysis of Higher-Order Paths in Supervised Learning Datasets. In the *Proceedings of the Workshop on Link Analysis, Counterterrorism and Security*, 2006 SIAM Conference on Data Mining. Bethesda, MD, April.
40. Lytkin, N. I. and Pottenger, W. M. (2008) Information Theoretic Similarity Measures for Inter-domain Predicate Mapping. In the *Proceedings of the SIAM Text Mine Workshop*, Eighth SIAM International Conference on Data Mining. Atlanta, GA, April.
41. Nikolov, A., Li, S. and Pottenger, W. M. (2009) Privacy-Enhancing Distributed Higher-Order ARM. In the *Proceedings of the Workshop on Link Analysis, Counterterrorism and Security*, SIAM International Conference on Data Mining, Sparks, NV, April.

Patent Applications

42. Inventor, *Systems and Methods for Data Transformation Using Higher Order Learning*, M.C. Ganiz, N.I. Lytkin and W.M. Pottenger, U.S. Patent Pending 61/185255.

Creative Activities: Research Software System

The Text Mining Infrastructure (TMI) is a software system for research in Textual Data Mining that has been developed in my lab under my direction over the past several years. The TMI incorporates both existing and new capabilities in a reusable framework conducive to developing new tools and components for use in text/data mining research and development [3]. The TMI is based in part on the Hierarchical Distributed Dynamic Indexing system (HDDI) [12]. It provides core text mining capabilities for a wide variety of applications via a flexible componentized architecture. The TMI adheres to strict guidelines that allow it to run in a wide range of processing environments. As a result, it accommodates the volume of computing and diversity of research occurring in text/data mining. A unique capability of the TMI is support for optimization. This facilitates text/data mining research by automating the search for optimal parameters in mining algorithms. Another key capability is support for parallelism in shared-memory and distributed environments using OpenMP and MPI, respectively.

The TMI has been licensed by over 200 researchers worldwide, both academic and industrial, and is available on the web at www.dimacs.rutgers.edu/~billp. Among other users, a software product based on the TMI has been used at the Bethlehem, PA Police Department in their investigative detective unit as an advanced modus operandi search system. Over the past several years, eight Ph.D., six M.S. and ten undergraduate students developed and used the TMI in their research. I have also used the TMI as a teaching tool in my text/data mining courses, both graduate and undergraduate, and several students have completed a variety of challenging class projects with it.

III. Selected Honors and Awards

National Science Foundation *Discoveries* Spotlight on Research (2008, www.nsf.gov)
Certificate of Recognition for STEM Outreach (2006, Lehigh Valley Engineering Council)
P.C. Rossin Assistant Professorship (2001-2003, Lehigh University)
United States Air Force Certificate of Appreciation (2001, United States Air Force)

IV. Research Funding

Selected Competitively Awarded Research Grants

1. **Principal Investigator** for “*Efficient Privacy Methods Using Linear Programming*”, National Science Foundation, \$499,274, 2010-2013, one co-PI at Rutgers University (R. Wright)
2. Co-Investigator for “*Semantic Ontological Techniques for Analyst Reasoning*”, IARPA, \$13,529,918, 2010-2014, two PIs and six co-PIs from Telcordia, Rutgers University and Intuindex, Inc.
3. Co-Investigator for “*Assessment and Demonstration of Advanced Predictive Technologies (ADAPT)*”, National Institute of Justice, \$198,274, 2009-2010, one PI (M. Roosa at the Maryland State Police) (subcontract award to Intuindex, Inc.)
4. **Principal Investigator** for “*Entity Matching System*”, National Institute of Justice, US Department of Justice, \$213,561, 2009-2010, one co-PI from Rutgers University (P. Kantor)
5. Co-Investigator for “*DHS Center of Excellence for Command Control and Interoperability*”, Department of Homeland Security Science and Technology Division, \$15M, 2009-2015, one PI at Rutgers (F. Roberts) and multiple co-PIs
6. **Principle Investigator** for “*Exploiting Essential Elements of Information from Significant Activity Reports (SIGACTS) for Forensic Analysis*”, \$100,000, 2009-2009, no co-PIs (SBIR award to Intuindex, Inc.)
7. **Principle Investigator** for “*Collaborative Knowledge Discovery in Digital Government Data Using Distributed Higher-Order Text Mining*” (Research Experience for Undergraduates), National Science Foundation, \$12,000, 2009, no co-PIs
8. Co-Investigator for “*Integrating Bayesian Regression into Blackbook, Learning with Emergent Classes and Higher-Order Links*”, National Science Foundation, \$300,000, 2008-2009, five PI/co-PIs from Rutgers and Columbia Universities (F. Roberts, P. Kantor, D. Madigan, T. Zhang, D. Lewis)
9. **Principal Investigator** for “*Interactive Automation for Large-Scale Distributed Data Analytics*”, National Science Foundation, \$440,000, 2007-2011, no co-PIs
10. **Principal Investigator** for “*Anomaly Detection by Reasoning from Evidence in Mobile Wireless Networks*”, Army Research Office, \$50,000, 2007-2008, one co-PI from Rutgers University (M. Pazzani)
11. **Principal Investigator** for “*Deploying Center of Excellence S&T to the Port Authority of New York and New Jersey*”, Department of Homeland Security, \$260,000, 2007-2008, no co-PIs
12. **Principle Investigator** for “*An Association Rule Mining Algorithm for Face Recognition*” (Research Experience for Undergraduates), National Science Foundation, \$6,000, 2007-2008, no co-PIs
13. Co-Investigator for “*Sensor Management Problems of Nuclear Detection*”, National Science Foundation and DHS Domestic Nuclear Detection Office, \$2,000,000, 2007-2010, two PI/co-PIs from Rutgers and Princeton Universities (F. Roberts and W. Powell)
14. **Principal Investigator** for “*Information Extraction and Text Categorization*”, Pennsylvania Infrastructure Technology Alliance and Air Products and Chemicals, Inc., \$25,000, 2006, no co-PIs
15. Co-Principal Investigator for “*ITEST: Students That Are Ready for Technology*”, National Science Foundation, \$1,024,329, 2006-2009, three PI/co-PIs (G. D. Blank, H. U. Odi and H. L. Columba)
16. **Principle Investigator** for “*Higher Order Associations in Databases using an Apriori Algorithm*” (Research Experience for Undergraduates), National Science Foundation, \$6,000, 2006-2007, no co-PIs
17. **Principal Investigator** for “*Collaborative Knowledge Discovery in Digital Government Data Using Distributed Higher-Order Text Mining*”, National Science Foundation, \$429,975, 2005-2009, no co-PIs
18. **Principal Investigator** for “*Link Analysis, Free Text Conversion and Semantic Analysis Surveys*”, National Institute of Justice, US Department of Justice, \$200,000, 2005-2006, no co-PIs
19. Co-Principal Investigator for “*Sensor-Based Medical Information System*”, Pennsylvania Infrastructure Technology Alliance, \$26,780, 2005-2006, one PI (M. C. Chuah)
20. Co-Principal Investigator for “*Assessing and Helping Students Achieve Success with First in Math Online Program*”, Pennsylvania Infrastructure Technology Alliance, \$58,212, 2005-2006, four PI/co-PIs (H. L. Columba, H. U. Odi, R. Sun, G. D. Blank)
21. **Principal Investigator** for “*A Software System for Information Extraction in Criminal Justice Information Systems*”, National Institute of Justice, US Department of Justice, \$147,869, 2003-2005, no co-PIs

22. **Principal Investigator** for “*A Lehigh Valley Partnership to Enhance STEM Education through G4-12 Teaching Fellows*”, National Science Foundation, \$1,415,412, 2003-2007, two co-PIs (Henry U. Odi and Glenn D. Blank)
23. **Principal Investigator** for “*Information Extraction and Link Analysis for the Pennsylvania State Police Incident Information Management System*”, Commonwealth of Pennsylvania (contract to Lockheed-Martin), \$35,000, 2002-2003, no co-PIs
24. **Principal Investigator** for “*A Parallel-Pipelined Model of Execution on a Computational Grid*”, “*Link Analysis of Higher-Order Paths in Supervised Learning Datasets*” and “*Distributed Data Mining*”, National Center for Supercomputing Applications (NCSA), 170,000 System Units (SUs), 2002-2007, no co-PIs, research grants of computational time
25. **Principal Investigator** for “*Massively Parallel Computing using Web-based PCs*”, Data Synapse, Inc., \$70,000, 2001-2003, no co-PIs
26. **Principal Investigator** for “*Social Processes and Content in Intelink Online Chat Data*”, National Science Foundation, \$30,156, 2001-2002, no co-PIs
27. Co-Principal Investigator for “*Constructive Collaborative Inquiry-based Multimedia E-Learning*”, National Science Foundation, \$578,000, 2000-2004, two PI/co-PIs (Glenn D. Blank and G. Drew Kessler)
28. Co-Principal Investigator for “*Defining a Motion Imagery R&D Program*”, National Science Foundation, \$59,785, 2000-2001, three PI/co-PIs (Thomas I. Prudhomme, Thomas S. Huang, Scott Lathrop)
29. **Principal Investigator** for “*HDDI: A Testbed for Classification and Indexing*”, Army Research Lab (ARL), \$65,000, 2000-2000, no co-PIs
30. **Principal Investigator/Project Director** for “*Hierarchical Distributed Dynamic Indexing*”, Jointly funded by NCSA industrial partners, \$274,712, 1999-2001, one co-PI (Miranda Callahan)
31. **Principal Investigator/Project Director** for “*Large Scale Text Analysis*”, The Boeing Company, \$88,209, 1999-2001, no co-PIs
32. **Principal Investigator/Project Director** for “*Image Search System*”, The Boeing Company, \$227,528, 1999-2001, no co-PIs
33. **Principal Investigator/Project Director** for “*Financial Modeling*”, Allstate Insurance Corporation, \$189,712, 1999-2000, no co-PIs
34. Co-Principal Investigator/Project Director for “*Risk Assessment*”, Allstate Insurance Corporation, \$120,550, 1997-1999, one PI (William ‘Tilt’ Thompkins)
35. Project Director for “*Parallel Optimization in Simulation-based Acquisition*”, United States Air Force (Wright-Patterson AFB), \$160,000, 1999-2000, two PI/co-PIs (Thomas I. Prudhomme and William ‘Tilt’ Thompkins)

Selected Institutional/Equipment/Educational Grants and Gifts

36. Principal Investigator for “*P.C. Rossin Assistant Professorship Endowment*”, P.C. Rossin College of Engineering and Applied Science, \$20,000, 2001-2003, no co-PIs
37. Principal Investigator for “*HDDI: A Testbed for Classification and Indexing Equipment Grant*”, United States Army High Performance Computing Center, \$10,000, 2000, no co-PIs
38. Principal Investigator for “*A Patent Problem Solved Text Identification and Extraction Tool*”, Eastman Kodak Company, \$5,000, 2002 (gift), no co-PIs

V. Editor/Editorial Review Board Membership

1. Co-editor (with Michael W. Berry) of the *Proceedings of the Textmine '03 Workshop*, Third SIAM International Conference on Data Mining, San Francisco, CA, May 2003.
2. Editor of the *Proceedings of the Lehigh University Computer Science and Engineering Symposium*, Lehigh University, Bethlehem, PA, October 2003.

VI. Professional Presentations

Selected Invited Presentations, Seminars and Panels

- Presentation at the **Visual Analytics Consortium Meeting** in College Park, MD on *CCICADA, the DHS S&T Center of Excellence for Advanced Data Analysis* (August 2010)
- Presentation at **DHS DNDO Academic Research Initiative Review** in Washington, DC on *Higher Order Learning in Nuclear Detection* (July 2010)
- Presentation at **National Institute of Justice Workshop on Predictive Policing** in Washington, DC on *Visual and Data Analytics for Predictive Policing in IxAnalytics™* (June 2010)
- Presentation and Demo at **IACP Law Enforcement Information Management Conference** in Atlanta, GA on *Entity Resolution* (May 2010)
- Panel at **DHS University Programs Summit** in Washington, DC on *Advanced Analytics for Counterterrorism and Law Enforcement* (March 2010)
- Presentation at the **RAND Predictive Policing Workshop** in Washington, DC on *Assessment and Demonstration of Advanced Predictive Technologies (ADAPT)* (Feb 2010)
- Demonstration at the DHS S&T Booth at **Technologies for Critical Incident Preparedness** on the *Law Enforcement Information Framework and IxAnalytics™* (Feb 2010)
- Presentation at the **Terrorist Screening Center** in Washington, DC on *Closing Watch List Gaps Using Higher Order Technologies* (Jan 2010)
- Seminar at the **Naval War College** in Newport, RI on *A Case Study in Embedded Development* (Dec 2009)
- Panel at **NIJ First Predictive Policing Symposium** in Los Angeles, CA on *Entity Resolution* (Nov 2009)
- Presentation to **Dr. Richard Brown, Chief Economist of the FDIC** in Washington, DC on *Applications of Higher Order Learning in Financial Management* (October 2009)
- Presentation at the **DHS S&T Center of Excellence Directors Meeting** in Washington, DC on *Visual and Data Analytics for Law Enforcement* (October 2009)
- Presentation at **BBN Technologies** in Cambridge, MA on *Leveraging Higher Order Dependencies Between Features for Classification* (October 2009)
- Presentation at the **Air Force Research Lab** in Rome, NY on *Threat Detection and Information Extraction from SIGACTS* (September 2009)
- Briefing at the **DHS Customs and Border Protection Headquarters** in Washington, DC on *Data Analytics for Border Crossing Detection* (July 2009)
- Presentation at the **National Counter Terrorism Center** in Washington, DC on *Visual and Data Analytics Technologies for Counter Terrorism* (May 2009)
- Seminar at the **Predictive Analysis Workshop**, Hanscom Air Force Base, MA on *Visual and Data Analytics in Sensemaking and Predictive Analysis* (May 2009)
- Presentation to the **New Jersey State Police** at the Regional Operations Intelligence Center (ROIC) on *Visual and Data Analytics* (April 2009)
- Presentation at the **DHS Anomalies Detection Workshop** in Charlottesville, VA on *Higher Order Learning for Anomaly Detection* (March 2009)
- Seminar at the **DHS S&T University Programs Summit** in Washington, DC on *CompStat NG™, The Next Generation* (March 2009)
- Presentation to the **Los Angeles Police Department** with DHS S&T at Johns Hopkins University on *Visual and Data Analytics for Law Enforcement* (February 2009)
- Seminar at the **Computational Biomedicine Imaging and Modeling Center**, Rutgers University, on *Higher Order Learning in Image Processing* (February 2009)
- Presentation to the **Chief of the US Border Patrol** in Washington, DC on *Visual and Data Analytics for Border Security* (December 2008)
- Seminar at **DIMACS/DyDAn Multidisciplinary Seminar Series** on *Higher Order Learning* (November 2008)
- Panel presentation at the **International Association of Chiefs of Police (IACP)** on *Visual and Data Analytics for Law Enforcement* (November 2008)
- Seminar at **Pacific Northwest National Labs** on *Higher Order Learning* (October 2008)
- Seminar at the **New York Area Science and Technology Workgroup** on *New Technology For Emergency Responders* (May 2008)
- Presentation to **Undersecretary Admiral Jay Cohen at the Department of Homeland Security** on *Visual Analytics at the Port Authority of New York and New Jersey* (February 2008)
- Presentation at **ARO Workshop** on *Statistical Relational Learning on Higher Order Learning* (August 2007)

- Seminar at **DIMACS**, Rutgers University on *Searching Data for Evidence of Conspiracies* (June 2007)
- Panel presentation at the **Department of Homeland Security Stakeholders Conference** on *A Software System for Information Extraction in Criminal Justice Information Systems* (May 2007)
- Presentation at the **North Texas HIDTA** (High Intensity Drug Trafficking Area) on *Information Extraction* (March 2007)
- Presentation at **Air Products and Chemicals, Inc.** on *Information Extraction in Business Intelligence* (December 2006)
- Seminar at **BBN Technologies** on *Higher Order Learning* (October 2006)
- Presentation at the **US Department of Justice, National Institute of Justice** Information Led Policing Program Status Update on *Link Analysis* (June 2006)
- Presentation at the **US Department of Justice, National Institute of Justice** Information Led Policing Advisory Board Meeting on *A Software System for Information Extraction in Criminal Justice Information Systems* (October 2005)
- Presentation to US Department of Justice, **National Institute of Justice Regional Data Exchange (R-DEx)** Project Team in Washington, DC on *A Software System for Information Extraction in Criminal Justice Information Systems and Advanced Information Systems for Knowledge Mining and Information Sharing* (September 2005)
- Presentation to Korean Delegation from the **Supreme Court of Korea** and LG, Inc. at BearingPoint, Inc. in Harrisburg, PA on *Future Directions of the Korea Integrated Criminal-Justice System* (April 2005)
- Presentation at the **Law Enforcement Information Management Conference** on *A Software System for Information Extraction in Criminal Justice Information Systems*, Sacramento, CA (May 2004)
- Presentation to the Northampton County **Criminal Justice Policy Board** on *Distributed Criminal Justice Information Systems* (April 2004)
- Seminar at the **University of Wisconsin-Madison Electrical and Computer Engineering (ECE)** Department on *Application Resource Requirement Estimation in a Parallel-Pipeline Model of Execution on a Homogeneous Computational Grid* (November 2003)
- Seminars at the **Korea Institute for Science and Technology Information** on 1) *Supercomputers, Digital Libraries and Textual Data Mining in the Cyberinfrastructure*, 2) *Hot Topics in Digital Libraries* and 3) *Case Study of the Illinois DeLiver Digital Library* (October 2003)
- Seminar at the **Korea Advanced Institute of Science and Technology (KAIST)** on *A Software Infrastructure for Machine Learning Research in Text Mining* (April 2003)
- Seminar at **Seoul National University** on *A Software Infrastructure for Machine Learning Research in Text Mining* (April 2003)
- Presentation at the **IEEE Deans Summit II** on Research, Educational and Outreach Initiatives on *Using Multimedia Learning to Increase the Number of Women and Under-Represented Minorities in Computer Science & Engineering Education* (January 2003)
- Presentation to **Lockheed-Martin Management & Data Systems and the Pennsylvania State Police (PSP)** on *Information Extraction in the PSP IIMS* at the PSP in Harrisburg, PA (January 2003)
- Seminars at **Sandia National Laboratories** in Albuquerque, NM on *Parallelizing Associative Operations on a Computational Grid* and *Exploring Equivalence Classes of Semantics in Document Collections* (April 2002)
- Seminar at **IBM Almaden Research Laboratory** on *Trend Detection and Parallel, Distributed Feature Extraction in Textual Data Mining Using Hierarchical Distributed Dynamic Indexing (HDDI)* (August 2001)
- Seminars at the **Boeing Company** on *Weapons Systems Mission Capability Optimization* and *Time Series Analysis of Textual Data*, Philadelphia, PA (March 2001)
- Keynote presentation to the Chemical Engineering Department's Chemical Process Modeling and Control Research Center **Industrial Advisory Committee** on *An Introduction to Data Mining* (February 2001)
- Seminar at the **Computational Information Retrieval Workshop (CIR00)** on *Time Series Analysis of Textual Data* in Raleigh, NC (October 2000)
- Presentation to **Sandia National Laboratories Management** at Lehigh University on *Applications of Hierarchical Distributed Dynamic Indexing in Knowledge Management* (April 2000)
- Presentation to the **National Imagery and Mapping Agency (NIMA)** on *Content Based Image Retrieval* (March 2000)

- Seminar at the **Army Research Lab** on *Managing Distributed Textual Collections* in Aberdeen, MD (November 1999)
- Seminar to the **Aeronautical Systems Center** (ASC) at the United States Wright-Patterson Air Force Base on *Managing Distributed Textual Collections* (November 1999)
- Presentation to the **United States Army High Performance Computing Center at the Pentagon** on *Managing Distributed Textual Collections* (November 1999)
- Seminar at the **Workshop on Graph Partitioning & Applications: Current and Future Directions**, Army High Performance Computing Research Center, University of Minnesota, Minneapolis on *Hierarchical Distributed Dynamic Indexing* (October 1999)
- Presentation at the **Boeing Text Mining Mini-symposium** on *Distributed Clustering* (July 1999)
- Presentations to **United States Air Force Aeronautical Systems Center Major Shared Resource Center** Programming Environment and Training Program Officers on *Policy Driven, Multi-Objective Optimization of Simulated Stochastic Models Employed in Simulation Based Acquisition* (June, October and December 1999)
- Seminar at the **Center for Computing Sciences (CCS), Institute for Defense Analyses (IDA)**, United States National Security Agency on *Computing the Future of Knowledge Management* (May 1999)
- Presentation to **NCSA Industrial Partners** at the NCSA Industrial Operations and Strategic Technology Initiatives Quarterly Update Meeting on *Computing the Future of Knowledge Management* (April 1999)
- Presentations to **Allstate Insurance Company** on *Financial Modeling* (December 1998 and January 1999)
- Seminar at the **RCI (Research Consortium, Inc.)** North American Tenth Annual Member Executive Conference on *CS&E Technology Transfer: Computing the Future of Distributed Information Systems* (October 1998)
- Presentation at **Alliance '98** on *Computing the Future of Medical Informatics* (April 1998)
- Presentation at the **Digital Libraries '98 Metrics Workshop** on *Automatic Methods for Determining the Semantic Difference Between Collections of Documents* (June 1998)
- Presentation at the **Digital Libraries Initiative (DLI) All-Projects Meeting** at Carnegie Mellon University on *Parallel Optimization of Concept Spaces for the DLI Testbed* (June 1997)
- Presentation at **NSF, DARPA and NASA Illinois Site Visit** on *Parallel Optimization of Concept Spaces for DLI Testbed* (April 1997)

Refereed Conference/Workshop Presentations¹

- William M. Pottenger. *The Role of Associativity and Commutativity in the Detection and Transformation of Loop-Level Parallelism*. (1998) Presentation at the 12th ACM International Conference on Supercomputing, Melbourne, Australia, July.
- Fabien D. Bouskila and William M. Pottenger. (2000) *The Role of Semantic Locality in Hierarchical Distributed Dynamic Indexing*. Presentation at the 2000 International Conference on Artificial Intelligence (IC-AI 2000), Las Vegas, Nevada, June.
- Jirada Kuntraruk and William M. Pottenger. (2001) *Massively Parallel Distributed Feature Extraction in Textual Data Mining Using HDDI™*. Presentation at the Tenth IEEE International Symposium on High Performance Distributed Computing (HPDC-10). San Francisco, CA, August.
- Soma Roy, David Gevry and William M. Pottenger. (2002) *Methodologies for Trend Detection in Textual Data Mining*. Presentation at the Textmine '02 Workshop, Second SIAM International Conference on Data Mining, Washington, DC, April.
- Tianhao Wu and William M. Pottenger. (2003) *A Semi-supervised Algorithm for Pattern Discovery in Information Extraction from Textual Data*. Presentation at the Seventh Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-03). Seoul, Korea, April/May.
- Ganiz, M. C., Lytkin, N. I. and Pottenger, W. M. (2009) *Leveraging Higher Order Dependencies Between Features for Text Classification*. Presentation at the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD). Bled, Slovenia, September.

¹ Note that all conference/workshop publications listed in Section II included a presentation – I presented those listed here and those not listed here were presented by a co-author/colleague.

Organized or Chaired Workshops

1. Co-chair and organizer (with Ed Hovy, Dan Roth, Fred Roberts and Jack Jarmon) of the *Command, Control, and Interoperability Center for Advanced Data Analysis (CCICADA) Second Research Retreat*, University of Southern California, Los Angeles, CA, October 2010.
2. Co-chair and organizer (with Ed Hovy, Asamoah Nkwanta, Dan Roth, Fred Roberts, Guoping Zhang and Jack Jarmon) of the *Command, Control, and Interoperability Center for Advanced Data Analysis (CCICADA)-wide Research Retreat*, Morgan State University, Baltimore, MD, February 2010.
3. Co-chair and organizer (with Ed Hovy, Dan Roth, Fred Roberts and Jack Jarmon) of the *Technical Center-wide Research Kickoff Conference for the DHS S&T Command, Control, and Interoperability Center of Excellence for Advanced Data Analysis (CCICADA)*, Rutgers University, Piscataway, NJ, December 2009.
4. Chair and organizer of the *Lehigh University Computer Science and Engineering Department Research Poster Competition*, Lehigh University, Bethlehem, PA, April 2005.
5. Chair and organizer of the *Lehigh University Computer Science and Engineering Symposium*, Lehigh University, Bethlehem, PA, October 2003.
6. Co-chair and organizer (with Michael W. Berry) of the *Text Mining Workshop*, Third SIAM International Conference on Data Mining, San Francisco, CA, May 2003.
7. Co-chair and organizer (with Robert McGrath) of the *Workshop on Digital Library Metrics*, Third ACM Conference on Digital Libraries, Pittsburgh, PA, June 1998.

VII. Teaching and Advising

Courses Taught

Table 1 lists the courses I taught (or will teach) at the University of Illinois at Urbana-Champaign, Lehigh University and Rutgers University during the period from September 1998 through December 2011. In 2000 and a second time in 2005, I was honored by inclusion in *Who's Who Among America's Teachers*. Publisher Educational Communications, Inc. states "There is no greater tribute a teacher can receive than to be recognized for teaching excellence by former students, particularly when the students themselves have been as successful as those included in this process." The publisher also notes that only two percent of teachers nationwide receive this commendation more than once. In 2001, I was named a P.C. Rossin Assistant Professor. The award letter states "The Rossin Assistant Professorships are being awarded to the most outstanding individuals in the P.C. Rossin College of Engineering and Applied Science who demonstrated high potential for establishing a successful academic career at Lehigh through the integration of teaching and research." Amongst the courses listed are several core, required undergraduate courses, including Computer Architecture II (CS 232), Programming Languages (CSE 262), and Compiler Design (CSE 302). In addition, I taught several undergraduate and graduate electives, including Data Mining (CSE 347/447), Textual Data Mining (CSE 430) and Parallel Algorithms (CSE 376). Overall, I have taught over 850 students, not including an additional 250-plus students in supervised courses such as Freshman Design Experience, as well as over 60 independent studies. My student evaluation scores overall for all courses taught in the last twelve years average 4.5 on a scale of 5.0.

Table 1 Courses taught at Rutgers University, Lehigh University and the University of Illinois at Urbana-Champaign

Semester	Course Number	Course Name	Students	Course ² Quality	Instructor ² Quality
Fall 1998	CS 232	Computer Architecture II	136	4.5	4.5
Spring 1999	CS 232	Computer Architecture II	130	4.5	4.5
Fall 1999	CS 232	Computer Architecture II	206	4.5	4.5
Spring 2000	CSc 262	Programming Languages	47	3.88	3.97
Fall 2000	CSc 262	Programming Languages	57	3.91	4.41
Fall 2000	CSc 397	Data Mining	8	4.63	4.88
Spring 2001	CSc 497	Textual Data Mining	13	4.46	4.62
Fall 2001	CSc 397	Data Mining	14	4.64	4.71
Spring 2002	CSE 262	Programming Languages	31	4.65	4.8

² On a scale of [1.0-5.0] where 5.0 is the best quality possible.

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Spring 2002	CSE 497	Textual Data Mining	9	4.62	4.88
Fall 2002	CSE 357	Data Mining	12	4.88	4.88
Fall 2002	CSE 376	Parallel Algorithms	9	4.57	4.43
Spring 2003	CSE 262	Programming Languages	35	4.79	4.71
Spring 2003	CSE 430	Textual Data Mining	6	4.67	4.67
Fall 2003	CSE 357	Data Mining	15	4.15	4.38
Spring 2004	CSE 302	Compiler Design	36	4.16	4.42
Spring 2004	CSE 430	Textual Data Mining	3	(N/A ³)	(N/A ³)
Fall 2004	CSE 347	Data Mining	12	4.41	4.47
Fall 2004	CSE 497	Data Mining (Graduate)	8	4.41	4.47
Spring 2005	CSE 302	Compiler Design	37	4.48	4.67
Spring 2005	CSE 430	Textual Data Mining	9	4.67	4.44
Fall 2005	CSE 347	Data Mining	8	4.37	4.42
Fall 2005	CSE 447	Data Mining (Graduate)	15	4.37	4.42
Spring 2006	CSE 302	Compiler Design	18	3.92	4.23
Summer 2007	Rutgers Reconnect	Data Mining	15	(N/A ³)	(N/A ³)
Fall 2011	Rutgers PSM Program	Data Analytics	TBD	TBD	TBD

Course or Curriculum Development

Over the past several years I introduced and developed three new courses at the graduate level, Data Analytics (to be taught Fall '11 as part of the Professional Science Masters program at Rutgers), Textual Data Mining (CSE 430) and Data Mining (CSE 447), and one new course at the undergraduate level, Data Mining (CSE 347). I also made significant curriculum enhancements to several existing courses including Programming Languages (CSE 262), Parallel Algorithms (CSE 376) and Compiler Design (CSE 302), as well as to Computer Architecture II (CS 232) at the University of Illinois at Urbana-Champaign.

Advising – Research Direction

Table 2 depicts the twelve students whom I served (or am serving) as director of their doctoral dissertation research. Of these, it is worth noting that several are female, and also that three of my students have taken positions in academia, two female (April Kontostathis, Jirada Kuntraruk and Murat Ganiz). Table 3 portrays similar information for students whose master's thesis research I directed (or am directing). A noteworthy case given the current scarcity of women in Computer Science is a female student, Soma Roy, who has taken a position as an assistant professor – other students' placements are noted in Table 3. Overall, I am personally directing the research of four Ph.D. students in Computer Science, and am either Principle or Co-Investigator of active grants that are supporting four graduate students. I have also supervised numerous undergraduate students in various research projects. Of these, I co-authored and published scholarly research articles with nine while they were undergraduates. Additional detail on my research is available at www.dimacs.rutgers.edu/~billp.

Table 2 Doctoral Dissertation Research Director

Student	Years	Placement
April Kontostathis	2000-2003	Associate Professor of Computer Science at Ursinus College
Jirada Kuntraruk	2000-2003	Assistant Professor of Computer Science at Ubon Rajathanee University
Tianhao Wu	2000-2006	Senior Research Software Engineer at Ask.com
Shenzhi Li	2002-2010	Ph.D. in CS
Murat Ganiz	2003-2008	Assistant Professor at Dogus University
Chris Janneck	2005-present	Ph.D. in CS
Nikita Lytkin	2007-2009	Research Scientist at NYU Medical Center
Aleksandar Nikolov	2008-present	Ph.D. in CS
Mark J. Dilsizian	2008-2009	Ph.D. in CS
Jason Perry	2008-2010	Ph.D. in CS

³ Assessment not conducted by educational institution.

Nir Grinberg	2010-present	Ph.D. in CS
Faisal Khan	2010-present	Ph.D. in CS

Table 3 Masters Thesis Research Director

Student	Years	Placement (Highest Degree)
Fabien Bouskila	1997-1999	Greenwich Consulting (M.S.)
Limei Zhou	1998-2000	Cisco (M.S.)
Ting Hao Yang	1998-2000	Microsoft (M.S.)
Yumi Jin	1998-2000	Fox Chase Cancer Center (Ph.D.)
Yong-bin Kim	1998-2001	Ph.D. in CS
David Gevry	2000-2002	Spectrum Administrators (M.S.)
Jeff Eynon	2000-2002	VIASTAR Technologies (M.S.)
Soma Roy	2000-2002	Assistant Professor @ NCC (M.S.)
Faisal Khan	2002-2004	Aureon Biosciences (M.S.)
Stephen V. Zantias	2005-2006	Northrop Grumman (M.S.)
Vikas Menon	2006-2009	Epic Systems (M.S.)
Cibin George	2007-2010	M.S. in CS
Kashyap Kolipaka	2009-2010	M.S./Ph.D. in CS

VIII. Service

This section details my service to the professional community as well as in the university, for which I have received several awards.

University Service

2000-2001	Active involvement in Lehigh 2020 initiative in planning the new Computer Science & Engineering Department
2000-2001	Participation in community outreach on campus-wide Day of Caring
2000-2006	Support of Lehigh Student Life Fellowship, Campus Crusade for Christ, University Bible Fellowship and Lehigh Christian Alumni
2001-2003	Service on multiple faculty search committees for Business and Information Systems faculty in the College of Business and Economics
2001-2006	Participation in Commencement, Founder's Day and Reunion Exercises, Twice as a Reader
2001-2006	Service on S.T.A.R. (Students That Are Ready) Advisory Board
2002-2006	Service on the Data Advisory Council
2002-2006	Service on the High Performance Computing Steering Committee
2005-2006	Service on the Faculty Financial Planning and Operations Committee
2007-present	Member of RUHSI, the Rutgers University Homeland Security Research Initiative

College Service

2000-2006	Aided in development efforts through various presentations, meetings, etc. (e.g., research presentation to P. C. Rossin, strengthening relationship with key management of Computer Aid, Inc. in Homeland Security domain, etc.)
2001-2004	Liaison to Unisys Corporation including negotiation of large equipment grant
2002-2003	Aided in conceptualization / participated in Junior Faculty Career Development Seminar Series
2002-2006	Aided in planning and execution of annual Holiday Party
2004-2004	Aided Dean Search Committee by evaluating candidates

Service to Interdisciplinary Programs

2003-2006	Led an active intercollegiate collaboration on the NSF GK-12 project for which I am PI (Graduate College of Education, College of Arts and Sciences and College of Engineering)
2004-2004	Aided in preparation for and participated in ABET recertification of intercollegiate Computer Science programs (Colleges of Engineering, Business and Arts and Sciences)

Departmental Service

2001-2002	Service on Departmental Graduate Committee
2001-2003	Service as Chair of the Community Committee
2001-2006	Service as Chair of the Textual Data Mining Qualifier
2002-2002	Service as Chair of the Parallel and Distributed Computing Qualifier
2002-2006	Hosted and/or aided in hosting several recognized seminar speakers
2003-2003	Service as a member of the Intelligent Agents Qualifier Committee
2003-2003	Organized CSE Department Symposium in role as Chair of Community Committee
2004-2005	Service as Chair of the CSE Publicity Committee
2005-2006	Service as member of Laboratory Renovation Proposal and Computer Facilities Committees
2007-present	Participation in various educational outreach activities including a High School Teachers Workshop, Rutgers Reconnect, etc.
2007-present	Represented DIMACS at various venues including Technologies for Critical Incident Preparedness, DHS Stakeholders Conference, etc.
2007-present	Service as REU Mentor

Professional Service

2000-2001	Member of Program Committees for 1 st and 2 nd SIAM International Conferences on Data Mining
2000-present	Member of ACM, IEEE and SIAM
2001-2002	Service on Board of Directors of Data Synapse, Inc.
2001-2003	Member of Program Committees for 1 st , 2 nd and 3 rd SIAM Workshops on Text Mining
2001-present	Referee for the ACM Transactions on Database Systems, IEEE Computer, the IEEE/ACM Transactions on Computational Biology and Bioinformatics, the IEEE Transactions on Computers, the IEEE Transactions on Knowledge and Data Engineering, the IEEE Transactions on Parallel and Distributed Systems, the IEEE Transactions on Geoscience and Remote Sensing, the IEEE Transactions on Systems, Man and Cybernetics; the IEEE Transactions on Intelligent Transportation Systems; the Information Retrieval Journal; Information Sciences; the Journal of Parallel and Distributed Computing, the INFORMS Journal of Computing, the Journal on Statistical Analysis and Data Mining and the Journal of the American Society for Information Science and Technology
2001-2006	Outreach to grade 6-12 middle and high school students through S.T.A.R. Academy (e.g., tutorial/workshop on mobile robotics, Career Day presentations, etc.)
2002-present	Member of Program Committee for two IEEE International Conferences on Data Mining (ICDM)
2002-present	Service on several NSF Proposal Review Panels in CISE
2002-2002	Referee for 8 th ACM/IFIP/IEEE International Euro-Par Conference
2002-2002	Member of Program Committee for 11 th IEEE High Performance Distributed Computing (HPDC)
2002-2003	Co-chair/editor of Workshop on Text Mining, SIAM International Conference on Data Mining
2003-2003	Member of Program Committee for 3 rd SIAM International Conference on Data Mining
2003-2003	Member of Program Committee for the 17 th ACM International Conference on Supercomputing
2004-present	Referee for NSF CAREER Proposal Review Panels
2005-2005	Referee for Workshop on Link Analysis, Counterterrorism and Security, 5 th SIAM International Conference on Data Mining
2005-present	Member of US Department of Justice Advisory Board reviewing and setting direction for Information Led Policing initiative at the National Institute of Justice
2005-present	Referee for Council of Physical Sciences of the Netherlands Organization for Scientific Research Proposal Review Committee
2005-present	Referee for Research Grants Council (RGC) of Hong Kong
2005-2006	Member of Program Committee for Fourth Workshop on Link Analysis, Counterterrorism and Security, 2006 SIAM Conference on Data Mining
2006-2006	Session Chair, 2006 SIAM Conference on Data Mining
2006-2006	Member of Program Committee for 17 th European Conference on Machine Learning and the 10 th European Conference on Principles and Practice of Knowledge Discovery in Databases
2006-2007	Member of Program Committee, IEEE Intelligence and Security Informatics Conference 2007
2006-2007	Member of Program Committee for the IEEE 21 st International Conference on Advanced Information Networking and Applications (AINA-07)

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2006-2007	Member of Program Committee for Fifth Workshop on Link Analysis, Counterterrorism and Security, 2007 SIAM Conference on Data Mining
2007-2007	Service on NSF CISE Career Proposal Review Panel
2007-2007	Member of Program Committee for 2007 IEEE International Conference on Data Mining (ICDM)
2007-2008	Service on NSF CISE Proposal Review Panels
2008-2008	Member of Program Committee for 2008 IEEE International Conference on Data Mining (ICDM)
2008-2009	Member of Program Committee for Text Mining '08 and '09, SIAM Conference on Data Mining
2010-present	Member of the Program Committee for the ACM SIGKDD Workshop on Intelligence and Security Informatics
2010-present	Member of Program Committee for the 10 th IEEE International Conference on Data Mining

Professional References

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