

Jessica Lin

Computer Science
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Education

- 2005 PhD in Computer Science
University of California at Riverside
Thesis: Discovering Unusual and Non-trivial Patterns in Time Series Databases
- 2002 M.S. in Computer Science
University of California at Riverside
Project: Dimensionality Reduction by Random Projection and Latent Semantic Indexing
- 1999 B.S. in Computer Science
University of California at Riverside

Work Experience

- August 2012 – Present Associate Professor
Department of Computer Science, George Mason University
- August 2008 – 2012 Assistant Professor
Department of Computer Science (department merged with the ISE department on January 1, 2008), George Mason University
- August 2005 – 2007 Assistant Professor
Department of Information and Software Engineering, George Mason University

Research Funding

- III: Small: Collaborative Research: Finding and Exploiting Hierarchical Structure in Time Series Using Statistical Language Processing Methods.*
Funding: \$500,000
Sponsor: National Science Foundation (NSF).
Role: Principle Investigator
Duration: 09/01/2012-08/31/2015.
- Discovering Latent Relationships and Ontological Structures in Massive Spatiotemporal Datasets*
Funding: \$232,484

Sponsor: US Department of the Army
Role: Principle Investigator
Duration: 09/30/2012-09/29/2015

3. *Contextual Anomaly Detection in Medical Applications*
Funding: \$36,824
Sponsor: Naval Research Lab
Role: Principle Investigator
Duration: 07/21/14 – 01/31/15
4. *Proactive Data Analysis and Knowledge Sharing*
Funding: \$240,000
Sponsor: Semiconductor Research Corporation & Intel Corporation
Role: Principle Investigator
Duration: 07/01/2011-06/30/2014
5. *The Business Case for Disability Care Coordination*
Funding: \$50,000
Sponsor: Agency for Health Care Policy and Research
Role: Co-Principle Investigator (PI: Susan Palsbo)
Duration: 09/29/06 – 09/28/07

Publications

Edited Volumes As Editor

1. Guido Cervone, **Jessica Lin**, and Nigel Waters (Eds.). 2013. *Spatio-Temporal Data Mining for Geoinformatics: Methods and Applications*. Springer-Verlag.
2. **Jessica Lin**, Guido Cervone, and Nigel Waters (Eds.). 2010. *Proceedings of the 1st ACM SIGSPATIAL International Workshop on Data Mining for Geoinformatics*. ACM, New York, NY, USA.

Refereed Journal Articles

3. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2013. Multi-event decision making over multivariate time series. *International Journal of Information and Decision Sciences*. 5(3).
4. **Jessica Lin**, Rohan Khade, and Yuan Li. 2012. Rotation-invariant similarity in time series using Bag-of-Patterns representation. *Journal of Intelligent Information Systems*. 39(2): 287-315.
5. **Jessica Lin**, Eamonn Keogh, Li Wei, and Stefano Lonardi. 2007. Experiencing SAX: a novel symbolic representation of time series. *Data Mining and Knowledge Discovery Journal (DAMI)*, 15(2): 107-144.
6. Stefano Lonardi, **Jessica Lin**, Eamonn Keogh, and Bill Chiu. 2007. Efficient discovery of unusual patterns in time series. *New Generation Computing*, 25(1): 61-93.
7. Eamonn Keogh, **Jessica Lin**, Sang-Hee Lee, and Helga Van Herle. 2006. Finding the most unusual time series subsequence: algorithms and applications. *Knowledge and Information Systems Journal (KAIS)*, 11(1): 1-27.
8. Eamonn Keogh, **Jessica Lin**, Ada Fu & Helga Van Herie. 2006. Finding unusual medical time series subsequences: algorithms and applications. *IEEE Transactions on Information Technology in Biomedicine*, 10(3): 429-439.

9. **Jessica Lin**, Eamonn Keogh, and Stefano Lonardi. 2005. Visualizing and discovering non-trivial patterns in large time series databases. *Information Visualization*, 4(2): 61-82.
10. Eamonn Keogh and **Jessica Lin**. 2005. Clustering of time series subsequences is meaningless: implications for previous and future research. *Knowledge and Information Systems Journal (KAIS)*, 8(2): 154-177.
11. **Jessica Lin**, Eamonn Keogh, 2004, Finding or not finding rules in time series. *Applications of Artificial Intelligence in Finance and Economics (Advances in Econometrics, Volume 19)*, Pages 175-201.

Articles in Refereed Conference Proceedings

12. Pavel Senin, **Jessica Lin**, Xing Wang, Tim Oates, Sunil Gandhi, Arnold P. Boedihardjo, Crystal Chen, and Susan Frankenstein. 2015. Time Series Anomaly Discovery with Grammar-Based Compressions. In *Proceedings of the 18th International Conference on Extending Database Technology (EDBT)*. Brussels, Belgium. March 23-27. *To Appear*.
13. Pavel Senin, **Jessica Lin**, Xing Wang, Tim Oates, Sunil Gandhi, Arnold P. Boedihardjo, Crystal Chen, Susan Frankenstein, and Manfred Lerner. 2014. GrammarViz 2.0: a Tool for Grammar-Based Pattern Discovery in Time Series. In *Proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases (ECML PKDD)*. Nancy, France. Sep 15-19.
14. Uday Kamath, **Jessica Lin**, and Kenneth De Jong. 2014. SAX-EFG: An Evolutionary Feature Generation Framework for Time Series Classification. In *Proceedings of Genetic and Evolutionary Computation Conference (GECCO '14)*. Vancouver, Canada. July 12-16, 2014.
15. Rasaq Otunba and **Jessica Lin**. 2014. APT: Approximate Period Detection in Time Series. In *Proceedings of the 26th International Conference on Software Engineering and Knowledge Engineering (SEKE)*. Vancouver, Canada, July 1-3.
16. Tim Oates, Arnold Boedihardjo, **Jessica Lin**, Crystal Chen, Susan Frankenstein, and Sunil Gandhi. 2013. Motif discovery in spatial trajectories using grammar inference. In *Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*. San Francisco, CA. Oct 27-Nov 1. *To Appear*.
17. Yuan Li, **Jessica Lin**, and Tim Oates. 2012. Visualizing variable-length time series motifs. In *Proceedings of the 2012 SIAM International Conference on Data Mining*. Pages 895-906. ♦ Acceptance Rate: 27%.
18. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2012. R-Checkpoint algorithm for multi-event decision making over multivariate time series. The 16th IFIP WG8.3 International Conference on Decision Support Systems. Anávisos, Greece.
19. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2011. A service framework for learning, querying, and monitoring multivariate time series. In *Proceedings of the 13th International Conference on Enterprise Information Systems*. Pages 92-101. ♦ **Best Student Paper Award** ♦ Full paper Acceptance Rate: 14%
20. **Jessica Lin** and Yuan Li. 2010. Finding approximate frequent patterns in streaming medical data. In *Proceedings of the 23rd IEEE International Symposium on Computer-Based Medical Systems*. IEEE Computer Society, Washington DC, USA.
21. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2010. Decisions on multivariate time series: combining domain knowledge with utility maximization. In *Supplemental Proceedings of the 15th International Conference on Decision Support Systems*. July 7-10. Lisbon, Portugal.
22. **Jessica Lin** and Yuan Li. 2009. Finding structural similarity in time series data using Bag-of-Patterns representation. In *Proceedings of the 21st International Conference on Scientific and Statistical Database*

- Management* (SSDBM 2009), Marianne Winslett (Ed.). Springer-Verlag, Berlin, Heidelberg, Pages 461-477. ♦ Full Paper Acceptance rate: 38%
23. **Jessica Lin** and Yuan Li. 2009. Finding structurally different medical data. In *Proceedings of the 22nd IEEE International Symposium on Computer-Based Medical Systems*. IEEE Computer Society, Washington DC, USA. Pages 1-8.
 24. **Jessica Lin** and David Etter. 2008. Exact and approximate reverse nearest neighbor search in multimedia data. In *Proceedings of the SIAM International Conference on Data Mining*. Pages 656-667. ♦ Short Paper. Overall Acceptance Rate 27%: 14% Full + 13% Short
 25. Ada Fu, Oscar Leung, Eamonn Keogh, and **Jessica Lin**. 2006. Finding time series discords based on Haar transform. In *Proceedings of the 2nd International Conference on Advanced Data Mining and Applications*. Xi'an, China. Aug 14-18. Pages 31-41.
 26. **Jessica Lin** and Eamonn Keogh. 2006. Group SAX: Extending the notion of contrast sets to time series and multimedia data. In *Proceedings of the 10th European Conference on Principles and Practice of Knowledge Discovery in Databases*. Berlin, Germany. Sept 18-22. Pages 284-296. Lecture Notes in Computer Science, Springer. ♦ Full Paper Acceptance Rate: 14.5%
 27. Eamonn Keogh, **Jessica Lin**, and Ada Fu. 2005. HOT SAX: Efficiently finding the most unusual time series subsequence. In *Proceedings of the 5th IEEE International Conference on Data Mining (ICDM)*. Nov 27-30. Houston, TX. Pages 226-233. IEEE Computer Society. ♦ Full Paper Acceptance Rate: 10.9%
 28. **Jessica Lin**, Eamonn Keogh, Ada Fu, and Helga Van Herie. 2005. Approximations to magic: finding unusual medical time series. In *Proceedings of the 18th International Symposium on Computer-Based Medical Systems*. IEEE Computer Society, Washington DC, USA. Pages 329-334. ♦ Full Paper Acceptance Rate: 36.4%
 29. **Jessica Lin**, Michail Vlachos, Eamonn Keogh, Dimitrios Gunopulos, Jianwei Liu, Shoujian Yu, and Jiajin Le. 2005. A MPAA-based iterative clustering algorithm augmented by nearest neighbors search for time-series data streams. In *Proceedings of the 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-05)*. Lecture Notes in Computer Science, Springer. Pages 333-342. ♦ Full Paper Acceptance Rate: 29.8%
 30. **Jessica Lin**, Eamonn Keogh, Stefano Lonardi, Jeffrey P. Lankford, and Donna M. Nystrom. 2004. Visually mining and monitoring massive time series. In *Proceedings of the tenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '04)*. ACM, New York, NY, USA, 460-469. ♦ Full Paper Acceptance Rate: 30%
 31. **Jessica Lin**, Eamonn Keogh, Stefano Lonardi, Jeffrey P. Lankford, and Daonna M. Nystrom. 2004. VizTree: a tool for visually mining and monitoring massive time series databases. In *Proceedings of the 30th International Conference on Very large Data Bases - Volume 30 (VLDB '04)*. VLDB Endowment. Pages 1269-1272.
 32. **Jessica Lin**, Michail Vlachos, Eamonn Keogh, and Dimitrios Gunopulos. 2004. Iterative incremental clustering of time series. In *Proceedings of the IX Conference on Extending Database Technology (EDBT)*. Lecture Notes in Computer Science, Springer. Pages 106-122. ♦ Full Paper Acceptance: 14.3%
 33. Eamonn Keogh, **Jessica Lin**, and Wagner Truppel. 2003. Clustering of time series subsequences is meaningless: implications for past and future research. In *Proceedings of the 3rd IEEE International Conference on Data Mining (ICDM)*. IEEE Computer Society. Pages 115-122. ♦ Full Paper Acceptance Rate 11.6%
 34. **Jessica Lin**, Eamonn Keogh, and Wagner Truppel. 2003. (Not) Finding rules in time series: a surprising result with implications for previous and future research. In *Proceedings of the 2003 International Conference on Artificial Intelligence*. Las Vegas, NV. June 23-26. Pages 55-61.
 35. Pranav Patel, Eamonn Keogh, **Jessica Lin**, and Stefano Lonardi. 2002. Mining motifs in massive time

series databases. In *Proceedings of the 2002 IEEE International Conference on Data Mining (ICDM '02)*. IEEE Computer Society, Washington, DC, USA, 370-377. ♦ Full Paper Acceptance Rate: 19.5%

Refereed Workshop Papers

36. Rasaq Otunba, **Jessica Lin**, and Pavel Senin. 2014. MBPD: Motif-Based Period Detection. In *Proceedings of the 1st International Workshop on Pattern Mining and Application of Big Data, in conjunction with PAKDD 2014*. Tainan, Taiwan. May 13, 2014.
37. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2011. Multi-event decision making over multivariate time series. In *Proceedings of EWG-DSS London 2011 Workshop on Decision Systems*. Birbeck, UK. June 23-34.
38. **Jessica Lin**, Guido Cervone, and Pasquale Franzese. 2010. Assessment in error in air quality models using dynamic time warping. In *Proceedings of the 1st International Workshop on Data Mining for Geoinformatics, in conjunction with SIGSPATIAL GIS 2010*. San Jose, CA. Nov 2, 2010. Pages 38-44.
39. Yuan Li and **Jessica Lin**. 2010. Approximate variable-length time series motif discovery using grammar inference. In *Proceedings of the 10th International Workshop on Multimedia Data Mining, in conjunction with SIGKDD 2010*. ACM, New York, NY, USA. Pages 1-9.
40. Eiman Al-Shammari and **Jessica Lin**. 2008. A new Arabic stemming algorithm. In *Proceedings of the 2008 ISCA Workshop on Experimental Linguistics*. Athens, Greece. Aug 25-27.
41. Eiman Al-Shammari, **Jessica Lin**. 2008. A novel Arabic lemmatization algorithm. In *Proceedings of the 2nd SIGIR Workshop on Analytics for Noisy Unstructured Text Data*. Singapore, July 24-27, 2008. p. 113-118.
42. Eiman Al-Shammari and **Jessica Lin**. 2008. Towards an error-free Arabic stemming. In *Proceeding of the 2nd ACM workshop on Improving non English web searching (INEWS), at the 17th ACM Conference on Information and Knowledge Management*. ACM, New York, NY, USA. Pages 9-16. ♦ Full Paper Acceptance Rate: 37%
43. David DeBarr and **Jessica Lin**. 2007. Time series classification challenge experiments. In *Proceedings of the Workshop and Challenge on Time Series Classification, at the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. San Jose, CA. Aug 12-15.
44. **Jessica Lin**, Vlachos, M, Keogh, E., & Gunopulos, D. 2003. Multi-resolution k-means clustering of time series and application to images. In *Proceedings of the 4th SIGKDD Workshop on Multimedia Data Mining, in conjunction with SIGKDD 2003*. 10 pages.
45. **Jessica Lin**, Eamonn Keogh, Stefano Lonardi, and Bill Chiu. 2003. A symbolic representation of time series, with implication for streaming algorithms. In *Proceedings of the 8th ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (DMKD '03)*. ACM, New York, NY, USA. Pages 2-11. ♦ Full Paper Acceptance Rate: 28.5%
46. **Jessica Lin**, Eamonn Keogh, and Wagner Truppel. 2003. Clustering of streaming time series is meaningless. In *Proceedings of the 8th ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (DMKD '03)*. ACM, New York, NY, USA. Pages 2-11. ♦ Full Paper Acceptance Rate: 28.5%
47. Michail Vlachos, **Jessica Lin**, Eamonn Keogh, and Dimitrios Gunopulos. 2003. A wavelet-based anytime algorithm for k-means clustering of time series. In *Proceedings of the Workshop on Clustering High Dimensional Data and Its Applications, at the 3rd SIAM International Conference on Data Mining*. San Francisco, CA. May 3, 2003. 12 pages.
48. **Jessica Lin** and Gunopulos, D. 2003. Dimensionality reduction by random projection and latent semantic indexing. In *Proceedings of the Text Mining Workshop, at the 3rd SIAM International Conference on Data Mining*. San Francisco, CA. May 3, 2003. 10 pages.

49. **Jessica Lin**, Eamonn Keogh, Pranav Patel, and Stefano Lonardi. 2002. Finding motifs in time series. In *Proceedings of the 2nd Workshop on Temporal Data Mining*, at the 8th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. Edmonton, Alberta, Canada. July 23-26, 2002. 11 pages.

Refereed Chapters in Books

50. **Jessica Lin**, Sheri Williamson, Kirk Borne, and David DeBarr. 2012. Pattern recognition in time series. *Advances in Machine Learning and Data Mining for Astronomy*. Eds. Kamal, A., Srivastava, A., Way, M., and Scargle, J. Chapman & Hall.
51. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2012. R-Checkpoint algorithm for multi-event decision making over multivariate time series. *Fusing Decision Support Systems into the Fabric of the Context*, Volume 238, Pages 209 - 220. IOS Press.
52. Chun-Kit Ngan, Alexander Brodsky, and **Jessica Lin**. 2011. An event-based service framework for learning, querying, and monitoring multivariate time series. *Lecture Notes in Business Information Processing*. Springer-Verlag. *To Appear*.
53. Chotirat Ann Ratanamahatana, **Jessica Lin**, Dimitrios Gunopulos, Eamonn Keogh, Michail Vlachos, and Gautam Das. 2010. Mining time series data. *Data Mining and Knowledge Discovery Handbook 2010*, 2nd Edition. Eds. Oded Maimon, Lior Rokach. Springer. Pages 1049-1077
54. **Jessica Lin**, Michail Vlachos, Eamonn Keogh, and Dimitrios Gunopulos. 2007. Multi-resolution time series clustering and application to images. *Multimedia Data Mining and Knowledge Discovery*, Eds. Valery Al Petrushin and Latifur Khan. Springer. Pages 58-79.
55. Chotirat Ann Ratanamahatana, **Jessica Lin**, Dimitrios Gunopulos, Eamonn Keogh, Michail Vlachos, and Gautam Das. 2005. Mining time series data. *Data Mining and Knowledge Discovery Handbook 2005*. Eds. Oded Maimon, Lior Rokach. Springer. Pages 1069-1103.

Other Publications

56. Guido Cervone, **Jessica Lin**, Pasquale Franzese. 2011. Addressing wind direction uncertainty in source estimation through dynamic time warping, In *Proceedings of the 91st American Meteorological Society Annual Meeting, Computational Intelligence Methods and Their Applications to Environmental Science*, Seattle, WA, January 2011.
57. **Jessica Lin**, Guido Cervone, and Nigel Waters. 2011. DMGI 2010 workshop report: The First ACM SIGSPATIAL international Workshop on Data Mining for Geoinformatics. SIGSPATIAL Special 3(1): 6-7.
58. Eiman Al-Shammari and **Jessica Lin**. 2008. Automated Corpora Creation Using a Novel Arabic Stemming Algorithm. In *proceedings of the 2008 International Symposium on Using Corpora in Contrastive and Translation Studies (UCCTS)*. Hanzhou, China. Sept 25-27.
59. Eamonn Keogh, **Jessica Lin**, Stefano Lonardi, and Bill Chiu. 2004. We have seen the future, and it is symbolic. In *Proceedings of the Second Workshop on Australasian Information Security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 (ACSW Frontiers '04)*, J. Hogan, P. Montague, M. Purvis, and C. Steketee (Eds.), Vol. 32. Australian Computer Society, Inc., Darlinghurst, Australia, Australia, Page 83.

Dissertation

- **Jessica Lin**. 2005. *Discovering Unusual and Non-Trivial Patterns in Massive Time Series Databases*. PhD thesis. Department of Computer Science, University of California at Riverside.

Software

- GrammarViz: http://grammarviz2.github.io/grammarviz2_site/
- VizTree (demo can be found at: <http://www.cs.gmu.edu/~jessica/viztree.htm>)
- SAX (Symbolic Aggregate approXimation): <http://www.cs.gmu.edu/~jessica/sax.htm>
- Danger of Dimensionality Reduction: <http://www.cs.gmu.edu/~jessica/DimReducDanger.htm>

Invited Talks and Presentations

- 2013 National Center of Atmospheric Research (NCAR)
Mining Massive Time Series Databases
- 2013 Intel Corporation
Mining Massive Time Series Databases
- 2012 National Institute of Standards and Technology (NIST)
Mining Massive Time Series Databases
- 2012 Living Social
Finding Non-Trivial Patterns and Structural Similarity in Time Series Databases
- 2009 George Mason University, Guest Speaker in EOS 753 (Observing the Earth and Its Climate),
Department of Geography and Geoinformation Science
Data Mining in Time Series Databases
- 2009 Virginia Tech, Department of Computer Science
Finding Non-Trivial Patterns and Structural Similarity in Time Series Databases
- 2007 USPS Office of Inspector General
Time Series Anomaly Detection
- 2007 Academia Sinica, Taiwan, Institute of Information Science
Discovering Unusual and Non-trivial Patterns in Massive Time Series
- 2007 National Chengchi University, Taiwan, Department of Computer Science
Discovering Unusual and Non-trivial Patterns in Massive Time Series

Professional Service

Workshop Chair

- SIGSPATIAL International Workshop on Data Mining for Geoinformatics, in cooperation with SIGSPATIAL GIS 2010.

Workshop Program Chair

- Special Session on Data Mining for Geoinformatics in Cooperation with the 17th International Conference on Geoinformatics, 2009.
- International Workshop on Spatial and Spatiotemporal Data Mining (SSTDM 09) in Cooperation with IEEE ICDM 2009
- International Workshop on Spatial and Spatiotemporal Data Mining (SSTDM 08) in Cooperation with IEEE ICDM 2008

Program Committee Member

2013

- International Conference on Data Mining (ICDM)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)
- ACM Conference of Information and Knowledge Management (CIKM)

2013

- International Conference on Data Mining (ICDM)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)
- ACM Conference of Information and Knowledge Management (CIKM)

2011

- International Conference on Data Mining (ICDM)
- ACM International Conference on Knowledge Discovery and Data Mining (KDD)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)
- Data-Driven Decision Guidance and Support Systems Workshop, in conjunction with the 28th IEEE International Conference on Data Engineering (ICDE)

2010

- International Conference on Data Mining (ICDM)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)
- International Conference on Machine Learning and Applications (ICMLA)

2009

- International Conference on Data Mining (ICDM)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)

2008

- International Conference on Data Mining (ICDM)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)

2007

- International Conference on Data Mining (ICDM)
- ACM International Conference on Knowledge Discovery and Data Mining (KDD)
- European Conference on Machine Learning and Principles and Practices of Knowledge Discovery in Databases (ECML/PKDD)

2006

- ACM International Conference on Knowledge Discovery and Data Mining (KDD)

Journal Reviewer

2013

- Transaction on Knowledge and Data Engineering (TKDE)
- Knowledge and Information Systems Journal (KAIS)

2011

- Transaction on Knowledge and Data Engineering (TKDE)
- Journal of Intelligent Information Systems (JIIS)
- ACM Computing Survey

2010

- Transaction on Knowledge and Data Engineering (TKDE)
- Data Mining and Knowledge Discovery Journal (DAMI)

2009

- Transaction on Knowledge and Data Engineering (TKDE)
- Knowledge and Information Systems Journal (KAIS)
- ACM Computing Survey

2008

- Transaction on Knowledge and Data Engineering (TKDE)
- Knowledge and Information Systems Journal (KAIS)
- Data Mining and Knowledge Discovery Journal (DAMI)

- Journal of Classification

2007

- Transaction on Knowledge and Data Engineering (TKDE)
- Knowledge and Information Systems Journal (KAIS)
- International Journal on Very Large Data Bases (VLDB Journal)

2006

- Transaction on Knowledge and Data Engineering (TKDE)
- Knowledge and Information Systems Journal (KAIS)
- Data Mining and Knowledge Discovery Journal (DAMI)
- Journal of Intelligent Information Systems (JIIS)