

PUBLICATIONS

JOURNAL PAPERS

M. Khabbaz, **K. Kianmehr**, and R. Alhajj. Employing Structural and Textual Feature Extraction for Semi-Structured Document Classification. *IEEE Transactions on Systems, Man, and Cybernetics – Part C*. (in press).

K. Kianmehr, M. Kaya, A. M. Elsheikh, J. Jida and R. Alhajj. Fuzzy Association Rule Mining Framework and Its Application to Effective Fuzzy Associative Classification. *WIREs Data Mining and Knowledge Discovery*, WILEY Publication, Published Online: Jun 28 2011.

M. Adnan, M. Nagi, **K. Kianmehr**, R. Tahboub, M. Ridley, R. Alhajj, and J. Rokne. Promoting where, when and what?: An analysis of web logs by integrating data mining and social network techniques to guide eCommerce business promotions. *International Journal of Social Networks Analysis and Mining*, Springer-Verlag Publication, Vol.1, No.3, pp.173-185, 25 November 2010.

A. Lo, T. Özyer, R. Tahboob, **K. Kianmehr**, J. Jida and R. Alhajj. XML materialized views and schema evolution in VIREX. *The International Journal of Information Sciences*, Elsevier Science Publishers, Vol.180, No.24, pp.4940-4957, 15 December 2010.

N. Koochakzadeh, **K. Kianmehr**, J. Jida, I. Lee, R. Alhajj and J. G. Rokne. Semi-Supervised Dynamic Classification for Intrusion Detection. *International Journal of Software Engineering and Knowledge Engineering*, Vol.20, No.2, pp.139-154, 2010.

M. Zhang, **K. Kianmehr** and R. Alhajj. Effective monitoring by efficient fingerprint matching using a forest of NAQ-trees. *Journal of Intelligent Information Systems*, pp.1-24, Published online, 02 November 2010, DOI: 10.1007/s10844-010-0139-y.

K. Kianmehr and R. Alhajj. A fuzzy prediction model for calling communities. *International Journal of Networking and Virtual Organisations*, INDERSCIENCE Publishers, Vol.8, No.1/2, pp.75-97, November 2011.

A. Lo, T. Özyer, **K. Kianmehr** and R. Alhajj. VIREX and VRXQuery: interactive approach for visual querying of relational databases to produce XML. *Journal of Intelligent Information Systems*, Vol.35, No.1, pp.21-49, 2010.

M. Rifaie, **K. Kianmehr**, R. Alhajj and M. J. Ridley. Data modeling for effective data warehouse architecture and design. *International Journal of Information and Decision Sciences*, Vol.1, No.3, pp. 282-300, 2009.

K. Kianmehr, M. Alshalalfa and R. Alhajj. Fuzzy clustering-based discretization for gene expression classification. *The International Journal of Knowledge and Information Systems (KAIS)*, Vol.24, No.3, pp.441-465, September 2010.

K. Kianmehr, T. Özyer, M. Kaya and R. Alhajj. Wrapping VRXQuery with self-adaptive fuzzy capabilities. *Web Intelligence and Agent Systems, an International Journal* Vol.7, No.3, pp. 269-279, IOS Press, 2009.

K. Kianmehr and R. Alhajj. Calling communities analysis and identification using machine learning techniques. *Journal of Expert Systems with Applications*, Elsevier Science Publishers, Vol.36, No.3, pp.6218-6226, April 2009.

K. Kianmehr and R. Alhajj. CAR SVM: a class association rule-based classification framework and its application to gene expression data. *Artificial Intelligence in Medicine*, Elsevier Science Publishers, Vol.44, No.1, pp.7-25, 2008.

M. Khabbaz, **K. Kianmehr**, M. Alshalalfa and R. Alhajj. Effectiveness of fuzzy classifier rules in capturing correlations between genes. *International Journal of Data Warehousing and Mining*, Vol.4, No.4, pp.62-83, 2008.

K. Kianmehr and R. Alhajj. Effectiveness of support vector machine for crime hot-spots prediction. *Applied Artificial Intelligence*, Vol.22, No.5, May 2008.

K. Kianmehr, H. Zhang, K. Nikolov, T. Özyer and R. Alhajj. Utilizing neural network and support vector machine for gene expression classification. *Journal of Information and Knowledge Management*, Vol.6, No.4, pp.251-260, December 2007.

REFEREED CONFERENCE PAPERS

K. Kianmehr and N. Koochakzadeh. Privacy-Preserving Ranking over Vertically Partitioned Data. In *Proceedings of the EDBT/ICDT Workshops: The 5th International Workshop on Privacy and Anonymity in the Information Society (PAIS)*, Berlin, Germany, 2012.

E. Davoodi, M. Afsharchi, **K. Kianmehr**. A Social Network-based Approach to Expert Recommendation System. To appear in *Proceedings of the 7th International Conference on Hybrid Artificial Intelligence Systems (HAIS'12)*, Salamanca, Spain, 2012.

K. Kianmehr, N. Koochakzadeh, R. Alhajj. AskFuzzy: Attractive Visual Fuzzy Query Builder. In *Proceedings of the 2012 IEEE 28th International Conference on Data Engineering (ICDE'12)*, Washington, DC, USA, April, 2012.

N. Koochakzadeh, Atieh Sarraf, **K. Kianmehr**, R. Alhajj, J. Rokne. NetDriller: A Powerful Social Network Analysis Tool. In *Proceedings of the 11th IEEE International Conference on Data Mining (ICDM) Demo Workshops (System prototype demonstration)*, Vancouver, Dec. 2011.

O. Alhawsawi, M. Al-Saidi, M. Phi, T. N. Jarada, M. Khabbaz, N. Koochakzadeh, **K. Kianmehr**, R. Alhajj, J. Rokne. From Fuzzy Association Rule Mining to Effective Classification Framework. In *Proceedings of the International Conference on Intelligent Data Engineering and Automated Learning*, Springer-Verlag LNCS, Norwich, UK, Sep. 2011.

P. Peng, M. Nagi, O. Sair, A. N. ElSheikh, I. Suleiman, S. Gao, T. Özyer, **K. Kianmehr**, G. Naji, M. Ridley, J. Rokne, and R. Alhajj. From Alternative Clustering to Robust Clustering and Its Application to Gene Expression Data. In *Proceedings of the International Conference on Intelligent Data Engineering and Automated Learning*, Springer-Verlag LNCS, Norwich, UK, Sep. 2011.

M. Rifaie, H. Nagi, A. Rahmani, **K. Kianmehr**, M. Ridley and R. Alhajj. Improving Database Performance by Building and Analyzing Social Network of Tables from Query Access Patterns. *Proceedings of the International Conference on Applications of Social Network Analysis*, Zurich, Switzerland, Sep. 2011.

M. Nagi, A. M. ElSheikh, I. Sleiman, P. Peng, M. Rifaie, **K. Kianmehr**, P. Karampelas, M. Ridley, J. Rokne and R. Alhajj. Association rules mining based approach for web usage mining. In *Proceedings of IEEE International Conference on Information Reuse and Integration*, Las Vegas, Aug. 2011.

- N. Koochakzadeh, F. Keshavarz, A. Sarraf, A. Rahmani, **K. Kianmehr**, R. Alhaji, and J. Rokne. Stock Investment Decision Making: A Social Network Approach. *In Proceedings of International Symposium on Methodologies for Intelligent Systems*, Warsaw, Poland, June 2011.
- A. Rahmani, M. Nagi, M. Rifaie, **K. Kianmehr**, M. Ridley, R. Alhaji and J. Rokne. Employing Frequent Pattern Mining for Finding Correlations between Tables in Relational Databases. *Proceedings of the International conference on Information Technology: New Generations*, Las Vegas, USA, 2011.
- K. Kianmehr**, N. Pham, W. Chung and R. Alhaji. Mining online shopping patterns and communities," *Proceedings of the International Conference on Information Integration and Web-based Applications and Services* (ACM Press), Kuala Lumpur, Malaysia, 2009.
- K. Kianmehr**, J. Attari, K. Akomeah and R. Alhaji. Text summarization techniques: SVM versus neural networks. *Proceedings of the International Conference on Information Integration and Web-based Applications and Services* (ACM Press), Kuala Lumpur, Malaysia, 2009.
- J. Seto, Sh. Clement, D. Duong, **K. Kianmehr** and Reda Alhaji. Fuzzy query model for XML documents. *Proceedings of Intelligent Data Engineering and Automated Learning (IDEAL '09)*, pp. 333-340, Spain, September 2009.
- K. Kianmehr**, N. Koochakzadeh, R. Alhaji and J. Rokne. A new framework for an adaptive classifier model. *Proceedings of IEEE International Conference on Information Reuse and Integration (IRI'09)*, Las Vegas, Aug. 2009.
- D. Kinzel, M. Klettke, P. Uppal, N. Visram, **K. Kianmehr**, R. Alhaji and J. Rokne. The economic benefits of web mining. *Proceedings of the International Conference on Advances in Social Network Analysis and Mining (ASONAM'09)*, pp. 25-32, 2009.
- E. J. Blas, A. M. Muhsen, T. T. H. Mok, M. Rifaie, **K. Kianmehr**, R. Alhaji and M. Ridley. Data warehouse architecture for GIS applications. *Proceedings of the International Conference on Information Integration and Web-based Applications and Services* (ACM Press), Nov. 2008.
- M. Rifaie, **K. Kianmehr**, M. Ridley and R. Alhaji. DataWarehouse architecture for GIS. *Proceedings of IEEE International Conference on Information Reuse and Integration (IRI'08)*, Las Vegas, July 2008.
- K. Kianmehr**, M. Ridley and R. Alhaji. Fuzzy querying of nested XML. *Proceedings of IEEE International Conference on Information Reuse and Integration (IRI'08)*, Las Vegas, Jul. 2008.
- K. Kianmehr** and R. Alhaji. Effectiveness of machine learning techniques for automated identification of calling communities. *Proceedings of the International Symposium on Open Source Intelligence and Web Mining*, London, UK, July 2008.
- K. Kianmehr**, M. Alshalalfa and R. Alhaji. Effectiveness of fuzzy discretization for class association rule-based classification. *Proceedings of International Symposium on Methodologies for Intelligent Systems (ISMIS'08)*, Springer-Verlag LNCS, Toronto, CANADA, May. 2008.
- K. Kianmehr** and R. Alhaji. Optimizing web structures using web mining techniques. *Proceedings of the International Conference on Intelligent Data Engineering and Automated Learning (IDEAL '07)*, Springer-Verlag LNCS, Birmingham, UK, Dec. 2007.
- A. Lo, **K. Kianmehr**, T. Özyer, M. Kaya and R. Alhaji. Wrapping VRX-Query with self-adaptive fuzzy capabilities. *Proceedings of IEEE International Conference on Web Intelligence (WI'07)*, Silicon Valley, CA, Nov. 2007.

M. Khabbaz, **K. Kianmehr**, M. Alshalalfa and R. Alhadj. Fuzzy classifier based feature reduction for better gene selection. *Proceedings of the International Conference on Data Warehouse and Knowledge Discovery (DAWAK'07)*, Springer-Verlag LNCS, Regensburg, Germany, Sep. 2007.

[

T. Naser, **K. Kianmehr**, M. Ridley and R. Alhadj. Transforming object-oriented databases into XML. *Proceedings of IEEE International Conference on Information Reuse and Integration (IRI'07)*, Las Vegas, Aug. 2007.

K. Kianmehr and R. Alhadj. Support vector machine approach for fast classification. *Proceedings of the International Conference on Data Warehouse and Knowledge Discovery (DAWAK'06)*, Springer-Verlag LNCS, Poland, Sep. 2006.

K. Kianmehr and R. Alhadj. Effective classification by integrating support vector machine and association rule mining. *Proceedings of the International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'06)*, Springer-Verlag LNCS, Bugos, Spain, Sep. 2006.

K. Kianmehr and R. Alhadj. Crime hot-spots prediction using support vector machine. *Proceedings of ACS/IEEE International Conference on Computer Systems and Applications*, Dubai, Mar. 2006.

K. Kianmehr, H. Zhang, K. Nikolov, T. Özyer and R. Alhadj. Combining neural network and support vector machine into integrated approach for bio-data mining. *Proceedings of the International Conference on Enterprise Information Systems*, Miami, pp.182-187, May 2005.

EDITED BOOKS

Information Reuse and Integration in Academia and Industry. By Springer Verlag,
Editors : T. Özyer, **K. Kianmehr**, M. Tan, J. Zeng (in early stage)

Recent Trends in Information Reuse and Integration. T. Özyer, **K. Kianmehr**, M. Tan, Published by Springer-Verlag, ISBN 978-3-7091-0737-9, Available: October 28, 2011.

REFEREED BOOK CHAPTERS

E. Draken, T. N. Jarada, **K. Kianmehr** and R. Alhadj. Integrating Content and Structure into a Comprehensive Framework for XML Document Similarity Represented in 3D Space. In *Learning Structure and Schemas from Documents*, 1st Edition, in *Studies in Computational Intelligence Series*, Vol.375, ISBN 978-3-642-22912-1, Springer-Verlag Publisher, Available: September 28, 2011.

G. Naji, M. Nagi, A. M. ElSheikh, S. Gao, **K. Kianmehr**, T. Özyer, J. Rokne, D. Demetrick, M. Ridley, and Reda Alhadj. Effectiveness of Social Networks for Studying Biological Agents and Identifying Cancer Biomarkers. In U. K. Wiil (Ed.), *Counterterrorism and Open Source Intelligence*, Lecture Notes in Social Networks 2, DOI 10.1007/978-3-7091-0388-3 15, Springer-Verlag Publisher, Wien 2011.

M. Nagi, A. Guerbas, **K. Kianmehr**, P. Karampelas, M. Ridley, R. Alhadj and Jon Rokne. Employing social networks construction and analysis in web structure optimization. Nasrullah Memon and Reda Alhadj (Eds.), *From Sociology to Computing in Social Networks*, 1st Edition, Lecture Notes in Social Networks, Vol.1, Springer-Verlag Publisher, ISBN 978-3-7091-0293-0, 2010.

K. Kianmehr, T. Özyer, A. Lo, A. Jiwani, Y. Alimohamed, K. Spence and R. Alhadj. Human centric data representation: from fuzzy relational databases into fuzzy XML. Zongmin Ma and Li Yan (Eds.), *Soft Computing in XML Data Management*, *Studies in Fuzziness and Soft Computing Series*, Vol.255, pp.55-77, Springer Publisher, Berlin, 2010.

K. Kianmehr, A. Chan, N. Situ, K. Wong, R. Alhajj, J. Rokne and K. Barker. Attractive interface for XML: convincing naive users to go online. Zongmin Ma and Li Yan (Eds.), *Soft Computing in XML Data Management, Studies in Fuzziness and Soft Computing Series*, Vol.255, pp.165-191, Springer Publisher, Berlin, 2010.

N. Koochakzadeh, I. Lee, **K. Kianmehr**, R. Alhajj and J. Rokne. Integrating genetic algorithms and fuzzy logic for web structure optimization. N. Memon et al. (Eds.), *Data Mining for Social Network Data*, In *Annals of Information Systems*, Springer Publisher, US, Vol.12, pp.201-215, 2010.

M. Khabbaz, **K. Kianmehr**, M. Alshalalfa and R. Alhajj. An integrated framework for fuzzy classification and analysis of gene expression data. In *Strategic Advancements in Utilizing Data Mining and Warehousing Technologies: New Concepts and Developments*, IGI Global Publisher, pp.151-177, 2010.

M. Alshalalfa, R. Harrison, J. Luterbach, **K. Kianmehr** and R. Alhajj. Data pattern tutor for AprioriAll and PrefixSpan. John Wang (Ed.), *Encyclopedia of Data Warehousing and Mining*, 2nd Edition, IGI Global Publisher, pp.531-537, 2009.