

## Education

- 2004-2008, University of Arkansas at Little Rock, Little Rock, AR  
Doctor of Philosophy, Applied Science, emphasis area: **Applied Computing**  
Advisor: Xiowei Xu, Professor of Information Sciences  
**GPA: 4.0**
- 1997-2001, Dokuz Eylul University, Izmir, Turkey  
Bachelor of Science, **Computer Science**

## Experiences

- *Software Consultant*, Tempora Resources, June 2013 - present
- *Adjunct Assistant Professor*, Information Systems and Technology at Strayer University , Fall 2012-present  
Approved Courses: Introduction to Computer Information Systems, Introduction to Management Information Systems, Introduction to Relational Database Management Systems, Systems Analysis and Development, Computer Ethics
- *Teaching Assistant (TA)*, Computer Science Department at University of Arkansas at Little Rock, Fall 2007- Fall 2008  
Courses: Programming, Data Structures and Algorithms, Database Concepts
- *Graduate Research Assistant (RA)*, Applied Science Department at University of Arkansas at Little Rock, Fall 2004 – Summer 2007
- *Software Engineer & Project Manager*, Turkiye Online, Istanbul, Turkey, 2003
- *Software Engineer*, Manisa, Turkey, 2002

## Research Interests

- Knowledge Discovery and Data Mining
- Web Mining
- Text Mining
- Social Network Analysis
- Information Retrieval

## Publications

### Book Chapters

1. Xiaowei Xu, Mutlu Mete, Nurcan Yuruk, Daniel Berleant. “Knowledge Discovery in Textual Databases: A Concept-Association Mining Approach”, *Data Engineering: Mining, Information, and Intelligence* by Springer, 2009
2. Mutlu Mete, Fusheng Tang, Xiaowei Xu, Nurcan Yuruk. “Finding Functional Modules”, *Systems Biology for Signaling Networks, Systems Biology Volume 1*, 2010, pp 253-273

### Journal Publications

3. Mutlu Mete, Nurcan Yuruk, Xiaowei Xu. “Density Based Clustering Algorithm for Large Scale Networks”, in submission, invited to **ACM Transactions on Knowledge Discovery from Data (TKDD)**
4. Mutlu Mete, Fusheng Tang, Xiaowei Xu, Nurcan Yuruk. “A Structural Approach for Finding Functional Modules from Large Biological Networks”, **BMC Bioinformatics** 2008, 9, S19, (Journal Impact Factor: 3.78, **Number of citations: 48**)

### Refereed Conference Publications

5. Nurcan Yuruk, Mutlu Mete, Xiaowei Xu, Thomas A. J. Schweiger. “AHSCAN: Agglomerative Hierarchical Structural Clustering Algorithm for Networks”, *International Conference on Advances in Social Network Analysis and Mining (ASONAM'09)*, Athens, Greece, July 20-22, 2009
6. Chuanlei Zhang, William B. Hurst, Rathinasamy B. Lenin, Nurcan Yuruk, Sridhar Ramaswamy. “Analyzing Organizational Structures Using Social Network Analysis”, *5th International Workshop on Enterprise & Organizational Modeling and Simulation (EOMAS 2009)*, in conj.

- with the 21st International Conference on Advanced Information Systems (**CAiSE 2009**), Amsterdam, The Netherlands, June 8-9, 2009. Proceedings: Lecture Notes in Business Information Processing by Springer, vol. 34, pp. 143–156, 2009
7. Nurcan Yuruk, Xiaowei Xu, Chen Li, Jeffrey Xu Yu. “Supporting Keyword Queries on Structured Databases with Limited Search Interfaces”, 13th International Conference on Database Systems for Advanced Applications (**DASFAA 2008**), New Delhi, India, March 19-21, 2008. Proceedings: Lecture Notes in Computer Science by Springer, Volume 4947, pp. 43-439, 2008
  8. Nurcan Yuruk, Xiaowei Xu, Thomas A.J. Schweiger, "On Structural Analysis of Large Networks", 41st Annual Hawaii International Conference on System Sciences (**HICSS 2008**), January 7-10, 2008. Proceedings: IEEE Computer Society.
  9. Zhidan Feng, Xiaowei Xu, Nurcan Yuruk, Thomas A. J. Schweiger. “A Novel Similarity-Based Modularity Function for Graph Partitioning”, 9th International Conference on Data Warehousing and Knowledge Discovery (**DaWaK 2007**), Regensburg, Germany, 3-7 September 2007. Proceedings: Lecture Notes in Computer Science by Springer, Volume 4654/2007, pp. 385-396. (**Number of citations: 21**)
  10. Nurcan Yuruk, Mutlu Mete, Xiaowei Xu, and Thomas Schweiger, "A Divisive Hierarchical Structural Clustering Algorithm for Networks", International Workshop on Mining Graphs and Complex Structures, 7<sup>th</sup> IEEE International Conference of Data Mining (**ICDM 2007**), October 28-31, 2007, Omaha, Nebraska
  11. Xiaowei Xu, Nurcan Yuruk, Zhidan Feng, and Thomas A. J. Schweiger. “SCAN: A Structural Clustering Algorithm for Networks”, 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**SIGKDD’07**), San Jose, CA, Aug. 12-15, 2007. (**Acceptance rate: 8%, Number of citations: 245**)
  12. Xiaowei Xu, Mutlu Mete, Nurcan Yuruk. “Mining concept associations for knowledge discovery in large textual databases”, 20th Annual ACM Symposium on Applied Computing (**ACM SAC 2005**), March 13-17, 2005, Santa Fe, New Mexico

## **Dissertation**

13. **Nurcan Yuruk**. “Structural Clustering Algorithms for Networks”, University of Arkansas at Little Rock, December 2008

## **Presentations**

- Poster presentation, "Finding Structure-Connected Clusters in Networks", International Workshop and Conference on Network Science ( **NetSci'07**), Queens, NYC, May 20-25, 2007
- Poster presentation, " Structure-Connected Clusters as Functional Groups in Metabolic Networks", International Workshop and Conference on Network Science ( **NetSci'07**), Queens, NYC, May 20-25, 2007

## **Professional Services**

- Reviewer for IEEE Transactions on Knowledge and Data Engineering
- Reviewer for IEEE International Conference on Data Engineering
- Arkansas representative of International Sustainable World (Energy, Engineering, and Environment) Project Olympiad for high school students, I-SWEEEP 2008