Cihan Varol, Ph.D.

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EDUCATION

Ph.D in Applied Computing

May 2009

University of Arkansas at Little Rock (UALR), Little Rock, AR

Areas of Concentration: Information quality, Risk assessment, and Business Process Automation

Dissertation Topic: Hybrid Matching and Risk Assessment of Misspelled Names

Advisor: Dr. Coskun Bayrak

M.S. in Engineering May 2005

Lane Department of Computer Science & Electrical Eng., West Virginia University (WVU), Morgantown, WV Areas of Concentration: Software Architecture, Software Metrics, Error Propagation

Advisor: Dr. Bojan Cukic

B.S. in Computer Science

June 2002

Firat University, Elazig, TURKEY

CURRENT POSITION AND AFFILIATION

Assistant Professor	August 2009 – Present
Computer Science Department, College of Sciences, Sam Houston State	University
 COSC 1436 (Programming Fundamentals I) 	F'09, S'10, F'10, S'11, F'11, F'12
 COSC 4319 (Software Engineering) 	F'10
 COSC and DFSC 4340 (Special Topics) 	F'12
 COSC 5325 (Operating System Security) 	S'12
 COSC and DFSC 5340 (Special Topics) 	S'13
 COSC 6319 (Software Engineering) 	S'10
• DFSC 1317 (Intro to Digital Forensics / Information Assurance)	F'10, F'11

DFSC 3320 (Digital Forensics Tools)
 DFSC 6335 (Disaster Recovery)
 S'11, S'12, S'13
 Summer'10, Summer'11

DFSC 5335 (Risk Assessment & Financial System Security)

S'13

PREVIOUS EMPLOYMENT EXPERIENCE

Teaching AssistantUniversity of Arkansas at Little Rock, Little Rock, Arkansas

August 2006 - May 2009

October 2005 – August 2006

Courses: Principles of Information Quality, Information Quality Tools, Object Oriented Programming, and Software Engineering

Research Investigator

Action Laboratory for Applied Research (ALAR) Little Resk Arkanese

Acxiom Laboratory for Applied Research (ALAR), Little Rock, Arkansas

Preparation of Customer Data for BCDI Processing

-Identified approaches and developed prototypes to drive more automation and efficiency into the creation of BCDI workflows that control data processing in the Acxiom data warehouse and grid.

Research Assistant August 2004 – January 2006

Applied Computing Department, UALR, Little Rock, Arkansas

Designing a Batch CDI Flow Generator

-Managed eight graduate level students to implement an automatic flow generator to Acxiom Corporation's Customer Data Integration System and applied information retrieval techniques to provide customer expectations from misspelled information.

Research Assistant June 2004 – August 2004

Applied Computing Department, UALR, Little Rock, Arkansas

3D Modeling and Simulation of Urodynamics

-Developed 3D modeling and visualization of Urinary System and showing the Stress Incontinence during coughing

Research Assistant August 2002 – August 2003

Lane Department of Computer Science and Electrical Engineering, WVU, Morgantown, WV Software Architecture Metrics

-Led software developer on a NASA sponsored software architectural metrics project. The work involved focusing on error and change propagation to define and validate a set of architectural metrics for assessing quality of software architectures.

HONORS AND AWARDS

- Awarded a Certificate of Honor from the Balakgazi High School due to graduated as the top of the Students with Honor Grade
- Graduated as the best student (top GPA) from Computer Science Department, Elazig, Turkey

PROFESSIONAL SERVICES

- Journal Editor, Advances in Information Sciences and Service Sciences, An International Journal of Research and Innovation
- Journal Editor, International Journal of Information Processing and Management
- Journal Editor, International Journal of Intelligent Information Processing
- Manuscript Reviewer, Journal of Data and Information Quality
- Manuscript Reviewer, IEEE Transactions on Automation Science and Engineering
- Manuscript Reviewer, The International Journal of Business Innovation and Research
- Program Committee Member, 4th International Conference on Data Mining and Intelligent Information Technology Applications (ICMIA 2012), October 23-25, 2012, Taipei, Taiwan
- Program Committee Member, 17h North-East Asia Symposium on Nano, Information Technology and Reliability (NASNIT 2012), October 23-25, 2012, Taipei, Taiwan
- Program Committee Member, 6th International Conference on New Trends in Information Science, Service Science and Data Mining (ISSDM 2012), October 23-25, 2012, Taipei, Taiwan
- Program Committee Member, 8th International Conference on Advance Information Management and Service, (ICIMP 2012), September 18-20, 2012, Kyoto, Japan
- Program Committee Member, 6th International Advanced Technologies Symposium, (IATS 2011), May 16-18, 2011, Elazig, Turkey

PROFESSIONAL MEMBERSHIPS

- IEEE Member
- ICGST Academic Member

SERVICES FOR THE UNIVERSITY

Distance Education Committee Member

October 2011 – Present

SERVICES FOR THE DEPARTMENT

• CS Faculty Search Committee Member

September 2012 - Present

• CS Graduate Curriculum Committee Member

• CS Undergraduate Curriculum Committee Member

• CS Scholarship Committee Member

February 2012 – Present September 2009 – Present September 2009 – Present

ADVISING ACTIVITIES (Sam Houston State University)

M.S. Project Chair

- Sridvya Penmetsa (Computer Science), "Differentiating The Accuracy Problems in a Dataset:", To graduate Spring 2013
- Sairam Hari (Computer Science), "A Hybrid Approach for Detection of Near Duplicates in Web Pages", Graduated Fall 2012
- Garrett Calpouzos (Digital Forensics), "Steganography with open source audio codec for use in VoIP", Graduated Summer 2012
- Alejandro Villegas (Information Assurance), "CVOIP-FRU: Comprehensive VoIP Forensics Report Utility", Graduated Spring 2012
- Kishore Shimikeri (Computer Science), "Parts Based Image Recognition Model- Finding Waldo". Graduated Spring 2011
- Sandeep Naidu (Computer Science), "Generating a Panoramic View with Using SIFT and RanSac".
 Graduated Fall 2010
- Revathi Kanna (Computer Science), "Content based Information Retrieval using CMD". Graduated Fall
 2010
- Henry Neumann (Computer Science), "Real-Time Quality of Service Monitoring for Information Quality Products". Graduated Spring 2010

RESEARCH SUPPORT

Awarded:

PI: Cihan Varol,

June 2012 - September 2012

"Three Dimensional Modeling and Simulation of Stress Incontinence"
Sam Houston State University Competitive Intramural Faculty Research Grant (FRG)

Amount \$5,000

PI: Cihan Varol, Co-PI (Gary Smith)

June 2010 - May 2011

"Detecting Illusive Records within Law Enforcement Database"
Sam Houston State University Competitive Intramural Enhancement Research Grant (ERG)
Amount \$13,363

In Preparation:

PI: Cihan Varol

"REU Site: Undergraduate Research Experience in Information Assurance"

NSF: Research Experiences for Undergraduates

PUBLICATIONS

Book Chapter:

[1] VAROL, C., BAYRAK, C., WAGNER R., GOFF, D., "Application of Near Miss Strategy and Edit Distance to Handle Dirty Data", *Data Engineering: Mining, Information and Intelligence*, pp 91-101, Springer, ISBN: 978-1-4419-0175-0, 2010

Journal Papers:

[1] VAROL, C., BAYRAK, C., "Hybrid Matching Algorithm for Personal Names" *ACM Journal of Data and Information Quality (ACM JDIQ)*, Volume 3, Issue 4, Article No: 8, September 2012, doi>10.1145/2348828.2348830

- [2] VAROL, C., NEUMANN, H., "Real-Time Data Quality Monitoring System for Data Cleansing", *International Journal of Business Intelligence Research*, Volume 3, Issue 1, January 2012, pp. 83-93, ISSN: 1947-3591
- [3] NUTHAKKI, M. K., METE, M., VAROL, C., SUH, S. C., "UXSOM: UML Generated XML to Software Metrics" ACM SIGSOFT Software Engineering Notes, Vol. 36 Issue 3, May 2011, pp. 1-6, ISSN: 0163-5948
- [4] VAROL, C., BAYRAK, C., "Estimation of Quality of Service in Spelling Correction using Kullback-Leibler divergence" *Elsevier: Expert Systems with Application*, Volume 38, Issue 5, May 2011, Pages 6307-6312 (Impact Factor: 3.162)
- [5] VAROL, C., BAYRAK, C., "Risk Assessment of Error-Prone Personal Information in Data Quality Tools" *Journal of Computers, Academy Publisher*, Volume 6, No 2, February 2011, ISSN 1796-203X
- [6] VAROL, C., STAFFORD B., KOVVURI, K., CHITTI, R. "Author Disambiguation using an Hybrid Approach of Queries and String Matching Techniques" *IJIIP: International Journal of Intelligent Information Processing*, Vol. 1, No. 1, pp. 3-11, 2010
- [7] COLLINS, M., REYNOLDS, C., LE, C., VAROL, C., BAYRAK, C., "Automated data verification in a format-free environment" ACM SIGSOFT Software Engineering Notes, Vol. 31, Issue 2, March 2006, pp. 1-4, ISSN:0163-5948

Conference Publications:

- [1] MENDOZA, A., VAROL, C., "Tracking Malware using Internet Activity Data", *International Conference on Computer Science and Applications (ICSSA 12)*, October 24-26, 2012, pp. 102-105. San Francisco, California, USA
- [2] VAROL, C., "Dynamic Job Scheduling in Multilayer Grid Networks", International Conference on Systems Engineering and Engineering Management (ICSEEM 12), October 24-26, 2012, pp. 1449-1452. San Francisco, California, USA
- [3] VAROL, C., "Pattern Matching Techniques: A Survey Study Conducted on Social Security Numbers and Date of Births", ICGST Conference on Computer Science and Engineering (CSE 11), December 19-21, 2011, Istanbul, Turkey
- [4] PAVLOCK, B., DAVENPORT, C., McDANIEL, A., CASEY, J., VAROL, C., "Address Verification and Standardization Based on Edit Distance and Soundex", 6TH International Advanced Technologies Symposium (IATS'11), May 16-18, 2011, Elazig, Turkey
- [5] VAROL, C., TALBURT, J., "Pattern and Phonetic Based Street Name Misspelling Correction", 8th International Conference on Information Technology: New Generations (ITNG 2011), pp. 553-558. April 11-13, 2011, Las Vegas, Nevada, USA
- [6] PUSHKAREV, V., NEUMANN, H., VAROL, C., TALBURT, J., "An Overview of Open Source Data Quality Tools", The 2010 International Conference on Information and Knowledge Engineering (IKE 2010), July 12-15, 2010, Las Vegas, Nevada, USA
- [7] VAROL, C., BAYRAK, C., "Business Process Automation Based on Dependencies", *The Second International Conference on Information, Process, and Knowledge Management (eKNOW 2010),* February 10-15, 2010, St. Maarten, Netherlands Antilles
- [8] VAROL, C., VAROL, A., "Protection of the Private Information on Governmental Network". *International Conference eGovernment Sharing Experiences*, December 09-11, 2009, Antalya, Turkey
- [9] VAROL, C., BAYRAK, C., "Personal Name-based Pattern and Phonetic Matching Techniques: A Survey" ALAR Conference on Applied Research in Information Technology, February 13, 2009, Conway, Arkansas, USA
- [10] VAROL, C., BAYRAK, C., "Measuring Reliability Component for Quality of Service (QoS) in Business Process Automation", *The 14th International Conference on Distributed Multimedia Systems*, September 4-6 2008, Boston, Massachusetts, USA
- [11] VAROL, C., ROBINETTE, C., KULAGA, J., BAYRAK, C., WAGNER R., GOFF, D., "Application of Near Miss Strategy and Edit Distance to Handle Dirty Data", *ALAR Conference on Applied Research in Information Technology*, March 3, 2006, Conway, Arkansas, USA
- [12] VAROL, C., BAYRAK, C., "Applied Software Engineering Education", ITHET 2005, July 6-9, 2005, Santa Domingo, Dominican Republic

- [13] VAROL, C., BAYRAK C., LUDWIG, R., "Application of Software Engineering Fundamentals: A Hands of Experience", *The 2005 International Conference on Software Engineering Research and Practice,* June 27-30, 2005, Las Vegas, Nevada, USA
- [14] VAROL, C., DAS, R., DURSUN, O. O., "Software Metrics from XML and XML Metadata Interchange (XMI)", BILTEK 2005, June 2-4, 2005, Eskisehir, Turkey
- [15] VAROL, C., BAYRAK C., "Student Centered Software Engineering Education", Global Educational Technology Symposium, May 4-5, 2005, Little Rock, Arkansas, USA
- [16] VAROL, A., VAROL, C., "Distance Education Based On a Combination System of Internet and Television", 2nd International Communication in the Millennium, A Dialogue Between Turkish and American Scholars, In Cooperation with University of Texas at Austin, USA, Anadolu University and Istanbul University, pp.671-685, March 17-19, 2004, Istanbul, Turkey,
- [17] AMMAR, H., SHERESHEVSKY, M., ABDELMOEZ, W., GUNNALAN, R., VAROL, C., "WVU UI: Software Architecture Metrics", *The OSMA Software Assurance Symposium*, July 30, 2003, Lakeview, WV, USA
- [18] DAS, R., VAROL, C., "The Importance of the Institutional Networks of distance Education and recommendations for their problems", *International Open and Distance Education Symposium*, May 23-25, 2002, Eskisehir, Turkey
- [19] VAROL, A., VAROL, C.; GUR, K.; DOGAN, S.; BULUT, M.; DEMIR, F., "Student Oriented Education Application of the Faculty of Technical Education of Firat University", *Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2002*, pp. 242-246, May 20-22, 2002, Ankara, Turkey
- [20] VAROL, C., "Videoconference Applications", Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2002, pp. 274-278, May 20-22, 2002, Ankara, Turkey,
- [21] DAS, R., VAROL, C., "Problems and Defined Solutions for Institutional Networks", AB-2002 Academic Information Technology Conference, February 6-8, 2002, Konya, Turkey
- [22] VAROL, C.: VAROL, N., "The Internet Cafes and the approach of the younger generation to the use of internet", *Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2001*, pp. 14-19, May 03-05, 2001, Middle East Technical University (METU), Ankara, Turkey,
- [23] VAROL, C., "Lifelong Education", Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2000, pp. 127-130, May 15-17, 2000, Middle East Technical University (METU), Ankara, Turkey
- [24] VAROL, C., "The student point of view to the computer teacher education", Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 1999, pp. 105-109, May 13-15, 1999, Middle East Technical University (METU), Ankara, Turkey

Seminars and Presentations at Conferences:

- [1] VAROL, C., "VoIP and Digital Forensics", Digital Forensics and Biometric Systems", May 23, 2012, Kahramanmaras Court House, Kahramanmaras, Turkey
- [2] VAROL, C., "VoIP and Digital Forensics", Digital Forensics and Biometric Systems", May 25, 2012, Mustafa Kemal University, Hatay, Turkey
- [3] VAROL, C., "Providing QoS in Business Process Automation", *Graduate Research Forum*, April 21, 2006, University of Arkansas at Little Rock
- [4] BAYRAK, C., VAROL, C., "A Framework to Automate the Generation of BCDI Process Flows" Acxiom Laboratory for Applied Research Conference (ALAR'06), March 3, 2006, Conway, AR
- [5] VAROL, C., "Batch Customer Data Integration System", *Graduate Research Forum*, April 22, 2005, University of Arkansas at Little Rock
- [6] XIAO, Z., VAROL, C., WINGNING, Li, THOMPSON C., BAYRAK, C., "Workflow Automation," *Acxiom Laboratory for Applied Research Conference* (ALAR'05), Feb. 18, 2005, University of Central Arkansas, Conway, Arkansas
- [7] VAROL, C.: "e-life" April 24, 2002, Firat University, Turkey,
- [8] VAROL, C.: "Problems of the Internet Cafes", Informatics World, April 26, 2001, Firat University, Turkey.

Attended Workshops and Seminars:

- [1] CHSS Teaching Conference, SHSU, Huntsville, TX, August 23, 2012
- [2] NSF Workshop, Texas State University, San Marcos, TX, February 18, 2011
- [3] Writing in the Disciplines Seminar, SHSU, Huntsville, TX, May 24-28, 2010
- [4] eCollege Training Workshop, SHSU, Huntsville, TX, December 18, 2009
- [5] Grant Workshop, SHSU, Huntsville, TX, November 18, 2009
- [6] CHSS Teaching Conference, SHSU, Huntsville, TX, August 21, 2009