

**Cihan Varol, Ph.D.**

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**HIGHLIGHTS**

- Taught 14 different courses at Sam Houston State University (SHSU).
- Achieved 4.6 Average Teaching Evaluation score out of 5.0 from all the courses taught at SHSU.
- Published 2 Book Chapters, 16 Journal Papers, and 39 Conference Proceedings.
- Provided 13 invited talks or keynote speeches in seminars and conferences.
- Actively pursuing and obtained grants.
- Have advised 20 graduate students towards their M.S. projects or thesis.
- Serving as Graduate Programs Coordinator for the Computer Science Department at SHSU.
- Serving in multiple other committees for the university, college, and the department.

**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 POSITIONS AND AFFILIATIONS**

**Associate Professor**

**August 2015 – Present**

Computer Science Department, College of Sciences, Sam Houston State University

**Affiliate Graduate Faculty**

**January 2016 – Present**

Software Engineering Department, College of Technology, Firat University

**Affiliate Graduate Faculty**

**September 2016 – Present**

Information Quality Program, College of Engineering and Information Technology, University of Arkansas at Little Rock

Taught Courses:

- COSC 1436 (Programming Fundamentals I) F'09-10-11-12-13-14-15-16, S'10-11
- COSC 4319 (Software Engineering) F'10
- COSC and DFSC 4340 (Special Topics) F'12-16, S'16
- COSC 5325 (Operating System Security) S'12
- COSC and DFSC 5340 (Special Topics) S'13
- COSC 6319 (Software Engineering) S'10-15
- COSC 6049 and 6348 (Thesis) F'15-16, S'16-17

- DFSC 1316 (Digital Forensics and Information Assurance Fund. I) F'10-11, Summer'13-14-15
- DFSC 3320 (Digital Forensics Tools) S'11-12-13-14-15
- DFSC 6335 (Disaster Recovery) Summer'10-11, S'13-14
- DFSC 5335 (Risk Assessment & Financial System Security) S'13-14, Summer'14
- DFSC 5336 (Business Continuity Management) F'15-16, S'15-16-17
- DFSC 5340 (Information Quality Practices) Summer'15
- DFSC 6310 (Cyber Warfare & Terrorism) Summer'16
- SENG 551 (Digital Security) F'16, S'16

## PREVIOUS EMPLOYMENT EXPERIENCE

### Assistant Professor

August 2009 – August 2015

Computer Science Department, College of Sciences, Sam Houston State University

### Teaching Assistant

August 2006 – May 2009

University of Arkansas at Little Rock, Little Rock, Arkansas

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

### Research Investigator

October 2005 – August 2006

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

- Best Poster Award at ISDFS 2015, Title: An Exploration and Evaluation of Low-Cost SIEM Solutions for Risk Mitigation and PCI DSS Compliance: A Case Study
- Graduated as the best student (top GPA) from Computer Science Department, Elazig, Turkey
- Awarded a Certificate of Honor from the Balakgazi High School due to graduated as the top of the Students with Honor Grade

## 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
- Journal Editor, International Journal on Information Security Engineering (in Turkish)
- 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
- Manuscript Reviewer, Measurement, Elsevier
- Program Committee Member, The 15th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'16) - Special Session on Machine Learning in Information and Cyber Security, December 18-20, 2016, Anaheim, CA, USA
- Advisory Board Member, International Conference on Computer Science and Engineering (UBMK 2016), October 20-23, 2016, Tekirdag, Turkey
- Editor of Proceedings, 4<sup>th</sup> International Symposium on Digital Forensics and Security (ISDFS 2016), April 25-27, 2016, Little Rock, Arkansas
- Program Chair, 4<sup>th</sup> International Symposium on Digital Forensics and Security (ISDFS 2016), April 25-27, 2016, Little Rock, Arkansas
- Session Chair, 13<sup>th</sup> International Conference on Information Technology: New Generations (ITNG 2016), April 11-13, 2016, Las Vegas, Nevada
- Local Organizing Committee Member, American Society of Microbiology (ASM) Texas Branch Meeting, October 29-31, 2015, Huntsville, Texas
- Session Chair, 23<sup>rd</sup> IEEE Signal Processing and Communications Symposium (SIU 2015), May 16-19, 2015, Malatya, Turkey
- Keynote Speaker, 3<sup>rd</sup> International Symposium on Digital Forensics and Security (ISDFS 2015), May 11-12, 2015, Ankara, Turkey
- Session Chair, 3<sup>rd</sup> International Symposium on Digital Forensics and Security (ISDFS 2015), May 11-12, 2015, Ankara, Turkey
- Technical Program Committee Member, 3<sup>rd</sup> International Symposium on Digital Forensics and Security (ISDFS 2015), May 11-12, 2015, Ankara, Turkey
- Organizing Committee Member, 2<sup>nd</sup> International Symposium on Digital Forensics and Security (ISDFS 2014), May 12-13, 2014, The Woodlands, TX, USA
- Scientific Committee Member, 7<sup>th</sup> International Advanced Technologies Symposium, (IATS 2013), October 30- November 1, 2013, Istanbul, Turkey
- Executive Committee Member, 1<sup>st</sup> International Symposium on Digital Forensics and Security (ISDFS 2013), May 20-21, 2013, Elazig, Turkey
- Keynote Speaker, 1<sup>st</sup> International Symposium on Digital Forensics and Security (ISDFS 2013), May 20-21, 2013, Elazig, Turkey
- Session Chair, 1<sup>st</sup> International Symposium on Digital Forensics and Security (ISDFS 2013), May 20-21, 2013, Elazig, Turkey
- Scientific Committee Member, 4<sup>th</sup> International Conference on Data Mining and Intelligent Information Technology Applications (ICMIA 2012), October 23-25, 2012, Taipei, Taiwan
- Scientific Committee Member, 17h North-East Asia Symposium on Nano, Information Technology and Reliability (NASNIT 2012), October 23-25, 2012, Taipei, Taiwan
- Scientific Committee Member, 6<sup>th</sup> International Conference on New Trends in Information Science, Service Science and Data Mining (ISSDM 2012), October 23-25, 2012, Taipei, Taiwan
- Scientific Committee Member, 8<sup>th</sup> International Conference on Advance Information Management and Service, (ICIMP 2012), September 18-20, 2012, Kyoto, Japan
- Scientific Committee Member, 6<sup>th</sup> International Advanced Technologies Symposium, (IATS 2011), May 16-18, 2011, Elazig, Turkey
- Session Chair, 6<sup>th</sup> International Advanced Technologies Symposium, (IATS 2011), May 16-18, 2011, Elazig, Turkey

## PROFESSIONAL MEMBERSHIPS

- IEEE Member
- ICGST Academic Member
- USSF Referee

## SERVICES FOR THE UNIVERSITY

- Meta Assessment Committee Member for College of Sciences **September 2015 – Present**
- SEM member for Office of International Programs **November 2014 – Present**
- Distance Education Committee Member **October 2011 – August 2014**

## SERVICES FOR THE DEPARTMENT

- CS Graduate Coordinator **August 2015 – Present**
- CS Faculty Search Committee Chair **August 2013 – August 2015**
- CS Faculty Search Committee Member **September 2012 – August 2015**
- CS Graduate Curriculum Committee Member **February 2012 – Present**
- Lead person to create 2+2 degree program with Firat University **September 2010 – Present**
- CS ABET Accreditation Committee Member **September 2010 – Present**
- CS Student Advisor **September 2010 – Present**
- CS Undergraduate Curriculum Committee Member **September 2009 – Present**
- CS Scholarship Committee Member **September 2009 – Present**

## ADVISING ACTIVITIES (Sam Houston State University)

### M.S. Project Chair

- Richard Wilkins (Information Assurance), “Guideline Application for Event-Based Digital Forensic Investigation”, To graduate in Spring 2017
- Andrew Bannon (Digital Forensics), “Private Cell Networks Utilizing Software Define Radio (SDR)”, To graduate in Spring 2017
- Jose Garcia Lizama (Information Assurance), “Smart Home Forensics”, To graduate in Spring 2017
- Keerthi Koneru (Computer Science), “Phonetic Matching Toolkit with State-of- the-art MetaSoundex Algorithm for English and Spanish Words” Graduated Fall 2016
- Gloria Pena (Digital Forensics), “Mobile Phone Anti-Forensic Goals & Techniques”, Graduated Summer 2016
- David Barnett (Information Assurance), “Security concerns in DTN Bundle Protocols”, Graduated Summer 2016
- Srikanth Kambam (Computer Science), “Author Disambiguation using Longest Common Substring Algorithm”, Graduated Spring 2016
- Abhinov Chinthireddy (Computer Science), “Designing a Universal Rating Web Based Application Using Sentiment Analysis”, Graduated Spring 2016
- Venkata Pulla (Computer Science), “Mobile Application Security via Selfie”, Graduated Spring 2016
- Troy Mills (Information Assurance), “Security Vulnerabilities of Battery Management Firmware”, Graduated Fall 2015
- Shannon Siless (Information Assurance), “Gender Identification from Text Messages”, Graduated Fall 2015
- Leighton Colvin (Information Assurance), “Critical Issues in VoIP Usage in the Enterprise”, Graduated Summer 2015
- Ugochukwu Onochie (Information Assurance), “An Exploration and Evaluation of Low-Cost SIEM Solutions for PCI-DSS Compliance: A Case Study”, Graduated Summer 2015
- Ferdiansyah Mastjik (Information Assurance), “Detecting Same Family Malware with Pattern Matching Algorithms”, Graduated Spring 2015

- Victor Garcia (Digital Forensics), “Forensic Investigation of 3D Printers”, Graduated Spring 2015
- Abner Mendoza (Information Assurance), “A Tool to Analyze Browser Web-Storage Artifacts”, Graduated Spring 2013
- Sridvya Penmetsa (Computer Science), “Differentiating the Accuracy Problems in a Dataset”, Graduated 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

#### **McNair Scholar Advising**

- Ugochukwu Onochie (Computer Science - Information Assurance Concentration). Graduated Spring 2013

#### **RESEARCH SUPPORT**

##### **Awarded:**

PI: Cihan Varol

**January 2017 – May 2017**

“Web Browser Storage in Android Phones”

SHSU - College of Science and Engineering Technology Undergraduate Research Award

Amount \$1,175

PI: Narasimha Shashidhar, Co-PI (Cihan Varol)

**June 2015 – May 2016**

“iBaTs: Interactive Bash Shell Adaptive Tutoring System”

Sam Houston State University Competitive Intramural Enhancement Research Grant (ERG)

Amount \$14,950

PI: Cihan Varol, Co-PI (Hyuk Cho)

**June 2014 – May 2015**

“Extracting and Mining Web Browser Artifacts”

Sam Houston State University Competitive Intramural Enhancement Research Grant (ERG)

Amount \$15,000

PI: Cihan Varol

**June 2013 – September 2013**

“Diagnosing Liver Cirrhosis with Communications Technology”

Sam Houston State University Competitive Intramural Faculty Research Grant (FRG)

Amount \$5,000

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

**Pending:**

PI: Cihan Varol

“REU Site: Undergraduate Research Experience in Information Assurance”

NSF: Research Experiences for Undergraduates

**PUBLICATIONS**

**Book Chapters:**

[1] CHEN, L., **VAROL, C.**, LIU, Q., ZHOU, B., “Security in Wireless Metropolitan Area Networks: WiMAX and LTE”, *Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications*, pp. 11-27, IGI-Global, ISBN: 978-1-4666-4691-9, 2013

[2] **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] McDOWD, R., **VAROL, C.**, CARVAJAL, L., CHEN, L. “In-Depth Analysis of Computer Memory Acquisition Software for Forensic Purposes”, *Journal of Forensic Sciences (JFS)*, Volume 61, Issue 51, pp. 110-116, January 2016 (**Impact Factor: 1.306**)

[2] MASTJIK, F., **VAROL, C.**, VAROL, A. “Comparison of Pattern Matching Techniques on Identification of Same Family Malware”, *International Journal of Information Security Science (IJISS)*, Volume 4, Issue 3, pp. 104-111, September 2015

[3] MENDOZA, A., KUMAR, A., MIDCAP, D., CHO, H., **VAROL, C.**, “BrowStEx: A Tool to Aggregate Browser Storage Artifacts for Forensic Analysis”, *Digital Investigation Journal*, Volume 14, pp. 63-75, September 2015, ISSN 1742-2876 (**Impact Factor: 1.648**)

[4] **VAROL, C.**, HARI, S., “Detecting Near Duplicate Text Documents with a Hybrid Approach”, *Journal of Information Science*, Volume 41, Issue 4, pp. 405-414, August 2015, DOI:10.1177/0165551515577912 (**Impact Factor: 1.087**)

[5] VAROL, H., **VAROL, C.**, “Improving Female Student Retention in Computer Science during the First Programming Course”, *International Journal of Information and Education Technology*, Volume 4, Issue 5, pp. 394-398, October 2014, DOI:10.7763/IJiet.2014.V4.437

[6] VILLEGAS, A., **VAROL, C.**, “CVOIP-FRU: Comprehensive VoIP Forensics Report Utility”, *International Journal of Computer, Information Science and Engineering*, Volume 8, Issue 4, pp. 1-6, March 2014

[7] AMSDEN, N., **VAROL, C.**, “Malware Detection from a Virtual Machine: Correlating Unusual Keystrokes, Network Traffic, and Suspicious Registry Access”, *International Journal of Computer and Information Technology (IJCIT)*, Volume 2, Issue 6, pp. 1029-1034, November 2013, ISSN: 2279 – 0764 (**Impact Factor: 0.687**)

[8] CALPOUZOS, G., **VAROL, C.**, “GiLBCSteg: VoIP Steganography Utilizing the Internet Low Bit-Rate Codec”, *Computer Science and Information Technology*, Volume 1, Issue 2, pp. 153 – 158, September 2013, DOI: 10.13189/csit.2013.010212

[9] SILESSI, S., **VAROL, C.**, VAROL, H., “Non-Computer Science Majored Women Students Perspective on a Pictorial Programming Environment”, *International Journal of Education and Information Technologies*, Volume 7, Issue 2, pp. 44 – 51, May 2013, ISSN: 2074-1316

[10] **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

- [11] VAROL, C., NEUMANN, H., "Real-Time Data Quality Monitoring System for Data Cleansing", *International Journal of Business Intelligence Research*, Volume 3, Issue 1, pp. 83-93, January 2012, ISSN: 1947-3591
- [12] NUTHAKKI, M. K., METE, M., VAROL, C., SUH, S. C., "UXSOM: UML Generated XML to Software Metrics" *ACM SIGSOFT Software Engineering Notes*, Volume 36, Issue 3, pp. 1-6, May 2011, ISSN: 0163-5948
- [13] 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, pp. 6307-6312, May 2011 (**Impact Factor: 3.162**)
- [14] 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
- [15] VAROL, C., STAFFORD B., KOVVURI, K., CHITTI, R. "Author Disambiguation using an Hybrid Approach of Queries and String Matching Techniques" *IJIP: International Journal of Intelligent Information Processing*, Vol. 1, No. 1, pp. 3-11, 2010
- [16] 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, pp. 1-4, March 2006, ISSN: 0163-5948

#### Refereed Conference Publications:

- [1] SILESSI, S., VAROL, C., KARABATAK, M., "Identifying Gender from SMS Text Messages", *The 15th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'16)*, December 18-20, 2016, pp. 488-491, Anaheim, CA, USA. ISBN: 978-1-5090-6167-9/16
- [2] KONERU, K., VAROL, C., "Enhancement of Lempel-Ziv Algorithm to Estimate Randomness in a Dataset", *International Conference on Machine Learning and Data Analysis (ICMLDA'16)*, October 19-21, 2016, pp. 486-491, San Francisco, CA, USA
- [3] KONERU, K., PULLA, V., VAROL, C., "Performance Evaluation of Phonetic Matching Algorithms on English Words and Street Name: Comparison and Correlation", *5th International Conference on Data Management Technologies and Applications (DATA 2016)*, July 24-26, 2016, pp. 57-64, Lisbon, Portugal
- [4] CARVAJAL, L., CHEN, L., VAROL, C., RAWAT, D., "Detecting Unprotected SIP-based Voice Over IP Traffic", *4th International Symposium on Digital Forensics and Security (ISDFS 2016)*, April 25-27, 2016, pp. 44-48, Little Rock, Arkansas, USA
- [5] PULLA, V., VAROL, C., AL, M., "Open Source Data Quality Tools: Revisited", *13th International Conference on Information Technology: New Generations (ITNG 2016)*, April 11-13, 2016, pp. 893-904, Las Vegas, Nevada, USA
- [6] VAROL, C., HARI, S., "Improving Near Duplicate Data Detection via DSound Phonetic Matching Algorithm: A Solution to Address Typographical Problems", *The Seventh International Conference on Advances in Databases, Knowledge, and Data Application (DBKDA 2015)*, May 24-29, 2015, pp. 9-14, Rome, Italy. ISBN: 978-1-61208-408-4
- [7] MASTJIK, F., VAROL, C., VAROL, A., "Comparison of Pattern Matching Techniques on Identification of Same Family Malware", *3rd International Symposium on Digital Forensics and Security (ISDFS 2015)*, May 11-12, 2015, pp. 224-228, Ankara, Turkey
- [8] ONOCHIE, U.A., VAROL, C., "An Exploration and Evaluation of Low-Cost SIEM Solutions for Risk Mitigation and PCI DSS Compliance: A Case Study", *3rd International Symposium on Digital Forensics and Security (ISDFS 2015)*, May 11-12, 2015, pp. 238-243, Ankara, Turkey
- [9] ZULLICK, D., VAROL, C., "Business Continuity Opportunities in the Cloud: A Small to Medium Business Perspective", *4th International Conference on Business Intelligence and Technology (BUSTECH 2014)*, May 25-29, 2014, pp. 8-13, Venice, Italy. ISBN: 978-1-61208-345-2
- [10] MASTJIK, F., VAROL, C., "Risk Management Methods in Small Scale Companies", *2nd International Symposium on Digital Forensics and Security (ISDFS 2014)*, May 12-13, 2014, pp. 105-109, The Woodlands, TX, USA
- [11] VAROL, H., VAROL, C., "Improving Female Student Retention in Computer Science during the First Programming Course", *3rd International Conference on Educational and Information Technology (ICEIT 2014)*, January 10-12, 2014, Toronto, Canada
- [12] VAROL, A., VAROL, C., "Collaboration between College and Industry", *5th International Conference on Intellectual Capital Management (ICM 2013)*, September 11-12, 2013, Zanjan, Iran

- [13] VAROL, C., VAROL, A., COOPER, P., "Digital Forensics Education in Turkey", *The First International Symposium on Digital Forensics and Security (ISDFS 2013)*, May 20-21, 2013, Elazig, Turkey
- [14] CARVAJAL, L., VAROL, C., CHEN, L., "Tools for Collecting Volatile Data: A Survey Study", *The International Conference on Technological Advances in Electrical, Electronics, and Computer Engineering (TAECE2013)*, May 9-11, 2013, pp. 320-324, Konya, Turkey
- [15] SILESSI, S., VAROL, H., OLAMIDE, K., KEY, D., HOUCK, B., VAROL, C., "Dragon Drop Pictorial Programming", *4<sup>th</sup> International Conference on Education and Educational Technologies (EET 13)*, January 31- February 1, 2013, pp. 51-56, Cambridge, MA, USA
- [16] 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
- [17] 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
- [18] 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
- [19] PAVLOCK, B., DAVENPORT, C., McDANIEL, A., CASEY, J., VAROL, C., "Address Verification and Standardization Based on Edit Distance and Soundex", *6<sup>th</sup> International Advanced Technologies Symposium (IATS'11)*, May 16-18, 2011, Elazig, Turkey
- [20] VAROL, C., TALBURT, J., "Pattern and Phonetic Based Street Name Misspelling Correction", *8th International Conference on Information Technology: New Generations (ITNG 2011)*, April 11-13, 2011, pp. 553-558, Las Vegas, Nevada, USA
- [21] 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
- [22] 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
- [23] VAROL, C., VAROL, A., "Protection of the Private Information on Governmental Network". *International Conference eGovernment Sharing Experiences*, December 09-11, 2009, Antalya, Turkey
- [24] 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
- [25] VAROL, C., BAYRAK, C., "Measuring Reliability Component for Quality of Service (QoS) in Business Process Automation", *The 14<sup>th</sup> International Conference on Distributed Multimedia Systems*, September 4-6 2008, Boston, Massachusetts, USA
- [26] 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
- [27] VAROL, C., BAYRAK, C., "Applied Software Engineering Education", *ITHET 2005*, July 6-9, 2005, Santa Domingo, Dominican Republic
- [28] 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
- [29] VAROL, C., DAS, R., DURSUN, O. O., "Software Metrics from XML and XML Metadata Interchange (XMI)", *BILTEK 2005*, June 2-4, 2005, Eskisehir, Turkey
- [30] VAROL, C., BAYRAK, C., "Student Centered Software Engineering Education", *Global Educational Technology Symposium*, May 4-5, 2005, Little Rock, Arkansas, USA
- [31] 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, March 17-19, 2004, pp.671-685, Istanbul, Turkey

[32] 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

[33] 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

[34] 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*, May 20-22, 2002, pp. 242-246, Ankara, Turkey

[35] **VAROL, C.**, "Videoconference Applications", *Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2002*, May 20-22, 2002, pp. 274-278, Ankara, Turkey

[36] DAS, R., **VAROL, C.**, "Problems and Defined Solutions for Institutional Networks", *AB-2002 Academic Information Technology Conference*, February 6-8, 2002, Konya, Turkey

[37] **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*, May 03-05, 2001, pp. 14-19, Middle East Technical University (METU), Ankara, Turkey,

[38] **VAROL, C.**, "Lifelong Education", *Conference on the Education in Aspect of the Information Technologies and Exhibition, BTIE 2000*, May 15-17, 2000, pp. 127-130, Middle East Technical University (METU), Ankara, Turkey

[39] **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*, May 13-15, 1999, pp. 105-109, Middle East Technical University (METU), Ankara, Turkey

#### **Invited Talks:**

[1] **VAROL, C.**, "Can we Analyze all the Big Data we Collect?", The Seventh International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA 2015), May 27, 2015, Rome, Italy

[2] **VAROL, C.**, "Digital Forensics Education", Panel Speaker at the 3<sup>rd</sup> International Symposium on Digital Forensics and Security (ISDFS 2015), May 11, 2015, Ankara, Turkey

[3] **VAROL, C.**, "Comparison of Ram Acquisition Tools", Digital Forensics and Information Security Panel, May 24, 2013, Nevsehir University, Nevsehir, Turkey

[4] **VAROL, C.**, "Comparison of Ram Acquisition Tools", Digital Forensics and Information Security Panel, May 23, 2013, Erciyes University, Kayseri, Turkey

[5] **VAROL, C.**, "Crime and Data Quality", Keynote Speaker at the 1<sup>st</sup> International Symposium on Digital Forensics and Security (ISDFS 2013), May 20, 2013, Firat University, Elazig, Turkey

[6] **VAROL, C.**, "VoIP and Digital Forensics", Digital Forensics and Biometric Systems Panel, May 25, 2012, Mustafa Kemal University, Hatay, Turkey

[7] **VAROL, C.**, "VoIP and Digital Forensics", Digital Forensics and Biometric Systems Panel, May 23, 2012, Kahramanmaraş Court House, Kahramanmaraş, Turkey

[8] **VAROL, C.**, "Providing QoS in Business Process Automation", *Graduate Research Forum*, April 21, 2006, University of Arkansas at Little Rock

[9] 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

[10] **VAROL, C.**, "Batch Customer Data Integration System", *Graduate Research Forum*, April 22, 2005, University of Arkansas at Little Rock

[11] 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

[12] **VAROL, C.**: "e-life" April 24, 2002, Firat University, Turkey,

[13] **VAROL, C.**: "Problems of the Internet Cafes", *Informatics World*, April 26, 2001, Firat University, Turkey.

**Student Conference Presentations:**

[1] ONOCHIE, U., VAROL, C.: "Effectively Documenting Criminal Groups with Open-Source Intelligence", *21st Annual McNair Scholars Symposium*, University of California Berkeley, Berkeley, California, August 1-4, 2013

**Attended Workshops and Seminars:**

[1] CampusLabs Training Session, SHSU, Huntsville, TX, October 4, 2016

[2] Vireo ETD Training, SHSU, Huntsville, TX, September 7, 2016

[3] Ellucian CRM Recruit System and Training, SHSU, Huntsville, TX, May 18, 2016

[4] 3<sup>rd</sup> Annual SHSU Online Teaching and Learning Conference, SHSU, Huntsville, TX, January 17, 2014

[5] CHSS Teaching Conference, SHSU, Huntsville, TX, August 22, 2013

[6] CHSS Teaching Conference, SHSU, Huntsville, TX, August 23, 2012

[7] NSF Workshop, Texas State University, San Marcos, TX, February 18, 2011

[8] Writing in the Disciplines Seminar, SHSU, Huntsville, TX, May 24-28, 2010

[9] eCollege Training Workshop, SHSU, Huntsville, TX, December 18, 2009

[10] Grant Workshop, SHSU, Huntsville, TX, November 18, 2009

[11] CHSS Teaching Conference, SHSU, Huntsville, TX, August 21, 2009

