

HAMED REZANEJAD ASL BONAB

College of Information and Computer Sciences \diamond University of Massachusetts Amherst, MA
+1 (631) 215 4176 \diamond bonab@cs.umass.edu

RESEARCH INTERESTS

Information Retrieval, Machine Learning, Data/Text Mining, Stream Processing

EDUCATION

Ph.D. in Computer Science (2017 - Present)

College of Information and Computer Sciences, **UMass Amherst**, MA, USA

Center for Intelligent Information Retrieval (CIIR)

Research Topic: “Domain-Specific Cross Language Information Retrieval”

Supervisor: *Prof. James Allan*

M.Sc. in Computer Engineering (2014 - 2016)

Computer Engineering Department, **Bilkent University**, Ankara - Turkey

Bilkent Information Retrieval Group (BillR)

Thesis Topic: “Geometrically Optimum and Online Weighted Ensemble Classifier (GOOWE) on Evolving Data Streams”

Supervisor: *Prof. Fazli Can*

B.Sc. in Computer Engineering - Software (2008 - 2013)

Computer Engineering Department, Iran University of Science and Technology (**IUST**), Tehran - Iran

Last 60 Credits GPA: 17.01 /20

PUBLICATIONS

- [1] Ö. Gözüaçık, A. Büyükçakır, **H. Bonab**, and F. Can, “Unsupervised concept drift detection with a discriminative classifier,” *CIKM’19*, 2019. [To appear]
- [2] **H. Bonab**, J. Allan, and R. Sitaraman, “Simulating CLIR translation resource scarcity using high-resource languages,” *ICTIR’19*, 2019. [To appear]
- [3] **H. Bonab**, M. Aliannejadi, J. Foley, and J. Allan, “Incorporating hierarchical domain information to disambiguate very short queries,” *ICTIR’19*, 2019. [To appear]
- [4] S. Sarwar, **H. Bonab**, and J. Allan, “A multi-task architecture on relevance-based neural query translation,” *ACL’19*, 2019.
- [5] **H. Bonab** and F. Can, “Less is more: A comprehensive framework for the number of components of ensemble classifiers,” *IEEE TNNLS*, 2019. [Impact factor: 7.98]
- [6] **H. Bonab**, H. Zamani, E. Learned-Miller, and J. Allan, “Citation worthiness of sentences in scientific reports,” in *Proc. of SIGIR’18*. ACM, 2018, pp. 1061–1064.
- [7] A. Büyükçakır, **H. Bonab**, and F. Can, “A novel online stacked ensemble for multi-label stream classification,” in *Proc. of CIKM’18*. ACM, 2018, pp. 1063–1072.
- [8] **H. R. Bonab** and F. Can, “GOOWE: Geometrically optimum and online-weighted ensemble classifier for evolving data streams,” *ACM TKDD*, vol. 12, no. 2, p. 25, 2018.
- [9] **H. R. Bonab** and F. Can, “A theoretical framework on the ideal number of classifiers for online ensembles in data streams,” in *Proc. of CIKM’16*. ACM, 2016, pp. 2053–2056.

RESEARCH EXPERIENCE

- Dataminr, Research Internship** May 2019 - Aug 2019
· Artificial Intelligence (AI) team, NY - USA
- UMass Amherst, Research Assistant** Sep 2017 - Present
· Center for Intelligent Information Retrieval (CIIR), MA - USA
- Bilkent University, Research Assistant** Jan 2014 - Dec 2016
· Bilkent Information Retrieval Group (BillIR), Ankara - Turkey

TECHNICAL STRENGTHS

Computer Languages	Python, Java, C++, Matlab, R, PHP, HTML, CSS, JavaScript, Android
Database Management	Microsoft SQL, MySQL, Oracle lite
Operating Systems	GNU Linux, Microsoft Windows
Tools	Lemur, Galago, TensorFlow, MOA, Weka, Arena Computer Simulation, Opnet Network Analysis, Visual Paradigm, Asterisk PBX Framework, L ^A T _E X

R&D PROJECTS

- Domain-Specific Cross Language Information Retrieval** September 2017 - Present
· Cross language information retrieval using domain information, IARPA Project, UMass Amherst
· Short query disambiguation using hierarchical domain information, UMass Amherst
- Ensemble Methods for Evolving Data Streams** January 2014 - January 2016
· Concept drifting stream processing using ensemble methods, Bilkent University
- Intelligent Tutoring Systems (ITS)** February 2013 - September 2013
· Educational Data Mining and Machine Learning Systems, B.Sc. Thesis project, IUST University
- Android Programming** June 2013 - July 2013
· Prized Android Application called DangiDongi, Cafebazaar.ir
- Persian Transliteration between Arabic and Latin Scripts** September 2010 - January 2011
· NLP techniques and N-Gram Language Model, IUST University

LANGUAGE PROFICIENCY

English (Advanced), **Turkish** (Advanced), **Persian** (Native), **Azerbaijani** (Native), **Arabic** (Basic)

EXTRA CURRICULAR ACTIVITIES

Oil Painting, Nasta'liq Calligraphy, Table Soccer, Rock Climbing