

HAMED BONAB

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RESEARCH INTERESTS

Information Retrieval, Natural Language Processing, Machine Learning

EDUCATION

Ph.D. in Computer Science (MS/PhD Program) (2017 - 2022)

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

Center for Intelligent Information Retrieval (CIIR)

Thesis Topic: “**Neural Approaches for Language-Agnostic Search and Recommendation**”

Supervisor: **Prof. James Allan** (GPA: 3.87 /4.00)

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

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

Bilkent Information Retrieval Group (BilIR)

Supervisor: **Prof. Fazli Can** (GPA: 3.71 /4.00)

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] **H. Bonab**, M. Aliannejadi, A. Vardasbi, E. Kanoulas, and J. Allan, “Cross-Market Product Recommendation,” in *Proc. of CIKM’21*. 2021, p. 110–119.
- [2] Z. Huang, **H. Bonab**, S. Sarwar, R. Rahimi, and J. Allan, “Mixed Attention Transformer for Leveraging Word-Level Knowledge to Neural Cross-Lingual Information Retrieval,” in *Proc. of CIKM’21*. 2021, p. 760–770.
- [3] Y. Kim, R. Rahimi, **H. Bonab**, and J. Allan, “Query-driven Segment Selection for Ranking Long Documents,” in *Proc. of CIKM’21*. 2021, p. 3147–3151.
- [4] M. Aliannejadi, **H. Bonab**, A. Vardasbi, E. Kanoulas, and J. Allan, “XMRec: Workshop on Cross-Market Recommendation,” in *Proc. of RecSys’21*. 2021, p. 817–818.
- [5] S. Bakhshi, P. Ghahramanian, **H. Bonab**, and F. Can, “A Broad Ensemble Learning System for Drifting Stream Classification,” *Submitted to IEEE TKDE*, 2021.
- [6] Y. Yu, J. Karlgren, **H. Bonab**, A. Clifton, I. Tanveer, and R. Jones, “Spotify at the TREC 2020 Podcasts Track: Segment Retrieval,” in *TREC 2020*.
- [7] A. Clifton, S. Reddy, Y. Yu, A. Pappu, R. Rezapour, **H. Bonab**, J. Karlgren, B. Carterette, and R. Jones, “100,000 podcasts: A large-scale spoken document corpus,” in *Proc. of COLING’20*.
- [8] **H. Bonab**, S. Sarwar, and J. Allan, “Training effective neural CLIR by bridging the translation gap,” in *Proc. of SIGIR’20*. 2020, p. 9–18.
- [9] Ö. Gözüaçık, A. Büyükçakır, **H. Bonab**, and F. Can, “Unsupervised concept drift detection with a discriminative classifier,” in *Proc. of CIKM’19*. 2019, p. 2365–2368.
- [10] **H. Bonab**, J. Allan, and R. Sitaraman, “Simulating CLIR translation resource scarcity using high-resource languages,” in *Proc. of ICTIR’19*. 2019, p. 129–136.

- [11] **H. Bonab**, M. Aliannejadi, J. Foley, and J. Allan, “Incorporating hierarchical domain information to disambiguate very short queries,” in *Proc. of ICTIR’19*. 2019, p. 51–54.
- [12] S. Sarwar, **H. Bonab**, and J. Allan, “A multi-task architecture on relevance-based neural query translation,” in *Proc. of ACL’19*. 2019, p. 6339–6344.
- [13] **H. Bonab**, and F. Can, “Less is more: A comprehensive framework for the number of components of ensemble classifiers,” *IEEE TNNLS*, 2019. [**Impact factor: 11.683**]
- [14] **H. Bonab**, H. Zamani, E. Learned-Miller, and J. Allan, “Citation worthiness of sentences in scientific reports,” in *Proc. of SIGIR’18*. 2018, p. 1061–1064.
- [15] A. Büyükçakir, **H. Bonab**, and F. Can, “A novel online stacked ensemble for multi-label stream classification,” in *Proc. of CIKM’18*. 2018, p. 1063–1072.
- [16] **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.
- [17] **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*. 2016, p. 2053–2056.

EMPLOYMENT

- Amazon, Research Internship** Oct 2021 - Jan 2022
- Global Search Quality (GSQ) team, WA - USA
- Spotify, Research Internship** June 2020 - Aug 2020
- Natural Language Processing (NLP) team, MA - USA
- Dataminr, Research Internship** May 2019 - Aug 2019
- Artificial Intelligence (AI) team, NY - USA
- UMass Amherst, Research Assistant** Sept 2017 - Present
- Center for Intelligent Information Retrieval (CIIR), MA - USA
- Bilkent University, Teaching and Research Assistant** Jan 2014 - Dec 2016
- Bilkent Information Retrieval Group (BilIR), Ankara - Turkey

LANGUAGE PROFICIENCY

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

ACADEMIC SERVICES & ACHIEVEMENTS

- Selected for the Graduate Dissertation Writing Fellowship (\$16,500), UMass Amherst, Spring 2022
- Co-Organizing Cross-Market Recommendation Competition, WSDM’22 Cup, 2022
- Co-Organizing Workshop on Cross-Market Recommendation (XMRec), RecSys, 2021
- Passed PhD candidacy “with distinction”, UMass Amherst, 2019
- Conference/Journal Peer Reviewer:
 - (a) SIGIR’22 (b) SIGKDD’22 (c) WSDM’22 (d) EMNLP’21 (e) EMNLP’20 (f) ACL’20 (g) ECIR’19
 - (h) CIKM’18 & ’17 (i) ACM TKDD (j) IEEE TNNLS (k) JASIST (l) Neural Computing and Applications (NCAA) (m) IEEE Transactions on Industrial Informatics

EXTRA CURRICULAR ACTIVITIES

Oil Painting, Nasta’liq Calligraphy, Table Soccer, Skiing, Rock Climbing