

Alexandra Stefan

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EDUCATION

- University of Texas at Arlington**, Ph.D. in Computer Science, 2012.
- Boston University**, M.A. in Computer Science, 2008.
- University of Bucharest**, B.S. in Computer Science and Mathematics, 2002.

PROFESSIONAL APPOINTMENTS

- Sep. 2013 – present: Senior Lecturer**, Computer Science and Engineering Department, University of Texas at Arlington.
- Jan. 2014 – Dec 2017: Undergraduate Academic Advisor**, Computer Science and Engineering Department, University of Texas at Arlington
- Sep. 2012 – Aug. 2013. Instructor**, Computer Science and Engineering Department, University of Texas at Arlington.
- Sep. 2008 – May 2013. Teaching Assistant**, Computer Science and Engineering Department, University of Texas at Arlington.
- Sep. 2004 – May 2007. Teaching Assistant**, Computer Science Department, Boston University.

TEACHING EXPERIENCE

- Algorithms and Data Structures (CSE 2320). Spring 2015 - Fall2018.
- Introduction to Computers and Programming (CSE 1310). Fall2012 – Fall 2018.
- Introduction to Algorithms and Data Structures (CS112). Boston University, Summer 2006.

RESEARCH INTERESTS

Computer Vision, Data Mining, Sign Language Recognition.

DEPARTMENT/UNIVERSITY SERVICE

- Course coordinator for CSE 1310.
- CoE Committee on Honors College - Fall 2017 - present.
- Undergraduate Curriculum Committee, 2014 - present.
- ABET subcommittee, Fall 2016 – present.
- Grade Appeal Advisory Committee, 2014 - present.
- E-Week activities 2014 - present.
- Current Student Engagement/Organization & Experience, Fall 2018
- Outreach Programs and Student Recruitment, 2015 - present.
- Student Awards and Scholarships, Fall 2018
- Senior Design Review Committee, 2014 - 2017.

- Bynari Scholarship Committee, 2014 - 2017.
- FIRST Tech Challenge (March 2011, Feb 2014, Feb 2016), Volunteer for RoPro (February 2009).

HONORS AND AWARDS

- Nominated as Outstanding Advisor for 2016-2017 and 2015-2016 academic years.
- NSF Scholar Award to attend Doctoral Consortium of Pervasive Technologies Related to Assistive Environments (PETRA) in 2011 and 2009.
- Best Paper Award (co-author), in IEEE Workshop on Computer Vision and Pattern Recognition for Human Communicative Behavior Analysis (CVPR4HB), June 2008. The workshop had 29 submitted papers and 13 accepted papers.

HONOR SOCIETIES

- Member of the CSE Honor Society Upsilon Pi Epsilon.

PUBLICATIONS

Refereed Journal Papers

- J1. Alexios Kotsifakos, Alexandra Stefan, Vassilis Athitsos, Gautam Das, and Panagiotis Papapetrou. **“DRESS: Dimensionality Reduction for Efficient Sequence Search.”** Data Mining and Knowledge Discovery Journal (DAMJ), 29(5), pages 1280-1311, September 2015.
- J2. Alexandra Stefan, Vassilis Athitsos, and Gautam Das. **“The Move-Split-Merge Metric for Time Series.”** IEEE Transactions on Knowledge and Data Engineering (TKDE), 25(6), pages 1425-1438, June 2013.
- J3. Vassilis Athitsos, Haijing Wang, and Alexandra Stefan. **“A Database-Based Framework for Gesture Recognition.”** Journal of Personal and Ubiquitous Computing, 14(6), pages 511-526, September 2010.

Refereed Conference Papers

- C1. Paul Doliotis, Alexandra Stefan, Chris McMurrough, David Eckhard, and Vassilis Athitsos. **“Comparing Gesture Recognition Accuracy Using Color and Depth Information.”** Conference on Pervasive Technologies Related to Assistive Environments (PETRA), May 2011.
- C2. Alexandra Stefan, Vassilis Athitsos, Quan Yuan, and Stan Sclaroff. **“Reducing JointBoost-Based Multiclass Classification to Proximity Search.”** IEEE Conference on Computer Vision and Pattern Recognition (CVPR), pages 589-596, June 2009.
- C3. Alexandra Stefan, Haijing Wang, and Vassilis Athitsos. **“Towards Automated Large Vocabulary Gesture Search.”** Conference on Pervasive Technologies Related to Assistive Environments (PETRA), June 2009.
- C4. Alexandra Stefan, Vassilis Athitsos, Jonathan Alon, and Stan Sclaroff. **“Translation and Scale-Invariant Gesture Recognition in Complex Scenes.”** Conference on Pervasive Technologies Related to Assistive Environments (PETRA), July 2008.
- C5. Vassilis Athitsos, Alexandra Stefan, Quan Yuan, and Stan Sclaroff. **“ClassMap: Efficient Multiclass Recognition via Embeddings.”** IEEE International Conference on Computer Vision (ICCV), October 2007.

Refereed Workshop Papers

- W1. Haijing Wang, Alexandra Stefan, Sajjad Moradi, Vassilis Athitsos, Carol Neidle, and Farhad Kamangar. **“A System for Large Vocabulary Sign Search.”** Workshop on Sign, Gesture and Activity (SGA), September 2010.
- W2. Vassilis Athitsos, Carol Neidle, Stan Sclaroff, Joan Nash, Alexandra Stefan, Ashwin Thangali, Haijing Wang, and Quan Yuan. **“Large Lexicon Project: American Sign Language Video Corpus and Sign Language Indexing/Retrieval Algorithms.”** Workshop on the Representation and Processing of Sign Languages: Corpora and Sign Language Technologies (CSLT), pages 11-14, May 2010.
- W3. Vassilis Athitsos, Carol Neidle, Stan Sclaroff, Joan Nash, Alexandra Stefan, Quan Yuan, and Ashwin Thangali. **“The American Sign Language Lexicon Video Dataset.”** IEEE Workshop on Computer Vision and Pattern Recognition for Human Communicative Behavior Analysis (CVPR4HB), June 2008. [Best paper award]

Invited Papers

- I1. Haijing Wang, Alexandra Stefan, and Vassilis Athitsos. **“A Similarity Measure for Vision-Based Sign Recognition.”** International Conference on Universal Access in Human-Computer Interaction (UAHCI), pages 607-616, July 2009.

Technical Reports

- T1. Alexandra Stefan. **“Indexing Methods for Efficient Multiclass recognition.”** Technical Report BUCS-2008-018, Computer Science Department, Boston University, August 2008.

Ph.D. Thesis

“Similarity Measures and Indexing Methods for Time Series and Multiclass Recognition” Computer Science and Engineering Department, University of Texas at Arlington, December 2012.