Curriculum Vita
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Dr. Abdullah N. Arslan
Professor of Computer Science

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EDUCATION

PhD in Computer Science,	University of California, Santa Barbara, USA,	2002
MS in Computer Science,	University of North Texas, Denton, Texas, USA,	1996
BS in Computer Engineering,	Middle East Technical University, Turkey,	1990

TEACHING EXPERIENCE

2023-Present, Professor with tenure, East Texas A & M U., Computer Science

2016-2023, Associate Professor with tenure, East Texas A & M U., Computer Science

2009-2016, Assistant Professor, East Texas A & M U., Computer Science

2002-2009, Assistant Professor, University of Vermont, Computer Science

1996-2002, Research/Teaching Assistant, Teaching Associate, University of California, Santa Barabara, Computer Science,

1995-1996, Teaching Assistant/Fellow, University of North Texas, Computer Science

(SELECT) PUBLICATIONS

Arslan, A.N. (2022) Finding Optimal Paths of All Lengths in Directed Grid Graphs. In: Silhavy, R. (eds) *Artificial Intelligence Trends in Systems. CSOC 2022*. Lecture Notes in Networks and Systems, vol 502. Springer, Cham. https://doi.org/10.1007/978-3-031-09076-9_33

Monschke, K. A. and Arslan, A. N. (2018) RNA Secondary Structure Graphical Rendering Library, *IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology* (CIBCB), 30 May-2 June 2018, St. Louis, MO, USA, DOI: 10.1109/CIBCB.2018.8404963

Arslan, A. N. (2018) Methods for constructing Collatz numbers, *Notes on Number Theory and Discrete Mathematics*, Volume 24, 2018, Number 2, Pages 47—54, DOI: 10.7546/nntdm.2018.24.2.47-54

Arslan, A. N., Hempelmann, C. F., Attardo, S., Blount, G. P., and Sirakov, N. M. (2015) Threat Assessment Using Visual Hierarchy and Conceptual Firearms Ontology. *Optical Engineering*, 54(5), 053109, doi:10.117/1.OE.54.5.053109

Wu, X., Zhu, X., He, Y., Arslan, A. N. (2013). PMBC: Pattern mining from biological sequences with wildcard constraints. *Comp. in Bio. and Med.* 43(5): 481-492

Arslan, A. N. (2007) Regular expression constrained sequence alignment. *Journal of Discrete Algorithms*, Elsevier, 5(4), 647-661 (available online: http://dx.doi.org/10.1016/j.jda.2007.01.003)

Chen, G., Wu, X., Zhu, X., Arslan, A. N., and He, Yu. (2006) Efficient string matching with wildcards and length constraints. *Knowledge and Information Systems*, 10(4):399-419 (available online DOI: 10.1007/s10115-006-0016-8)

Arslan, A. N. and Egecioglu, O. (2005) Algorithms for the constrained longest common subsequence problems. *International Journal of Foundations of Computer Science*, (16)6:1099-1111, December 2005

Arslan, A. N. (2005) Multiple sequence alignment containing a sequence of regular expressions, Proc*. IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology* (CIBCB'05), pp. 230-236, La Jolla, November 14-15, 2005

Arslan, A. N. and Egecioglu, O. (2004) Dynamic programming based approximation algorithms for sequence alignment with constraints. *INFORMS Journal on Computing, Special issue on Computational Molecular Biology/Bioinformatics*, Vol. 16, No. 4, pp. 441-458

Arslan, A. N., Egecioglu, O. and Pevzner, P.A. (2001) A new approach to sequence comparison: normalized sequence alignment. *Bioinformatics* 17:327-337

RESEARCH GRANTS AND AWARDS

2020-2021, Expanding RNA Dataset for Fast Secondary Structure Comparisons (with Dr. Mete), Presidential GAR Initiative, Texas A&M University-Commerce, $15,000

2015-2018, Efficient Search, Comparison, and Annotation for Biological Sequences, Sole PI, NSF Award No: IIS-1528027, $76,756 (Developed a software tool for RNA structure search and comparison with a group of undergraduate and graduate students)

2015, Supervised a student research that won the 2nd place in Computer Science in the 12th Annual Pathways Student Research Symposium in October 2015, Corpus Christi

2013, SPIE Conference Best Paper Award, “From Shape to Threat: Exploiting the Convergence Between Visual and Conceptual Organization for Weapon Identification and Threat Assessment” (by Arslan, Hempelmann, Di Ferrante, Attardo, Sirakov), Lockheed Martin

2010-2011, Texas A & M System Teaching Excellence Award

2005-2008, Pattern Matching with Wildcards and Length Constraints, Co-PI, NSF Award No. CCF-0514819, $200,000