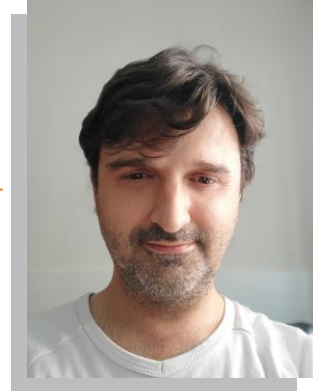


Curriculum Vitae

Ahmet Gürhanlı, Ph.D.



Personal Information:

Nationality: Republic of Turkey

Profession: Electronics Engineer

Academic Degree: Ph.D.

Gender: Male

Date of Birth: November 15, 1981

Place of Birth: Bursa, Turkey

Marital Status: Married

Number of Children: 2

Contact Information:

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Current Position:

1. Istanbul Aydin University – Dept. of Computer Engineering – Assistant Professor and Vice Chairman (Since July 2018)

Education:

B.Sc.: Hacettepe University (Ankara, Turkey), Electrical-Electronics Engineering (1999-2003)

M.Sc.: National Taiwan University (Taipei, Taiwan), Graduate Institute of Electronics Engineering (2004-2006)

Ph.D.: National Taiwan University (Taipei, Taiwan), Graduate Institute of Electronics Engineering (2006-2011)

Note: National Taiwan University is listed as 76th in general evaluation, and 19th in technical and engineering field according to a research carried out by QS Global World Ranking in 2018.

Research Interests:

Machine Learning, Image Processing, Computer Architecture

Master Thesis: Design of a RISC Processor Compatible with ARM Instructions

Ph.D. Thesis: Coarse Grain Parallelization of the H.264 Decoder without a Start-Code Scanner

Foreign Languages:

English (Advanced)

Chinese (Intermediate, fluent in speaking)

Computer Languages:

Software: C, C#, Python

Hardware Description Language: Verilog

Journal Papers (SCI, SCI-Expanded):

1. Ahmet Gürhanlı, “Accelerating Convolutional Neural Network Training Using ProMoD Backpropagation Algorithm”, IET Image Processing, DOI: 10.1049/iet-ipr.2019.0761, Available online: 09 March 2020
2. Taner Cevik, Nazife Cevik, Ahmet Gurhanli, “A Novel Multispectral Face Descriptor using Orthogonal Walsh Codes”, IET Image Processing, Volume 13, Issue 7, 30 May 2019, p. 1097 – 1104 DOI: 10.1049/iet-ipr.2018.6423
3. Ahmet Gürhanlı, “Modified acceleration feedback for practical disturbance rejection in motor drives”, Turkish Journal of Electrical Engineering & Computer Sciences, (2018) 26: 2151 – 2161. DOI: 10.3906/elk-1411-80
4. Ahmet Gürhanlı, “Accelerating Processors with Simple Touches”, Acta Physica Polonica Series A 130(1):252-255 · July 2016 DOI: 10.12693/APhysPolA.130.252
5. Ömer Eskidere and Ahmet Gürhanlı, “Voice Disorder Classification Based on Multitaper Mel Frequency Cepstral Coefficients Features” Computational and Mathematical Methods in Medicine, vol. 2015, Article ID 956249, 12 pages, 2015. doi:10.1155/2015/956249
6. Charlie Chung Ping Chen, Ahmet Gurhanli, Tse-Yu Chiang, Jen-Jer Hong, Lawrence S. Melvin, “Abbe singular-value decomposition: Compact Abbe’s kernel generation for microlithography aerial image simulation using singular-value decomposition method” Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures, Nov 2008 Vol. 26, Issue 6 pp. 2322 – 2330.

Journal Papers (TR Index)

1. Araç, Y , Gürhanlı, A . "Yapay Sinir Ağını Kullanarak Müşteri Memnuniyeti Analizi". Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi 11 (2020): 39-55

Other Journal Papers

1. İlker Poyraz, Ahmet Gürhanlı, “Drug Demand Forecasting for Pharmacies with Machine Learning Algorithms”, International Journal of Engineering Research and Application, Vol.

10, Issue 7, (Series-III) July 2020, pp. 51-54

2. Mariya Kiknadze, Ahmet Gürhanlı, “Prediction Of Breast Cancer Using Artificial Neural Networks”, International Journal of Engineering Research and Application, Vol. 10, Issue 02 (Series -II) February 2020, pp 06-15
3. Toghrul Valibayli, Ahmet Gürhanlı, “Using Steganography within WEB Security and Its Application in User Login System”, International Journal of Engineering Research and Application, Vol. 10, Issue 02 (Series -I) February 2020, pp 06-11
4. Omer Yavuz Can, Ahmet Gurhanli, “Credit Risk Analysis Using Machine Learning Techniques”, International Journal of Engineering Research and Application, Vol. 10, Issue 01 (Series -I) January 2020, pp 56-59
5. Yılmaz Onur, Gürhanlı Ahmet (2019). The Application of Drug Recognition Based on Image Processingfor Visually Impaired Individuals. Journal of Engineering Research and Application, 9(12), 27-30., Doi: 10.9790/9622-0912032730
6. Zakiroğlu Nur, Güneş Ali, Gürhanlı Ahmet, Zontul Metin (2019). Using Machine Learning Techniques For Bone Age Assessment. Journal of Engineering Research and Application, 9(8), 16- 20., Doi: 10.9790/9622- 090802162016
7. Gurhanli, Ahmet; Chen, Charlie Chung-Ping; Hung, Shih-Hao; Coarse grain parallelization of H.264 video decoder and memory bottleneck in multi-core architectures; IJCTE, Vol.3, No.3, June 2011.

Conference Papers:

1. Görgün Mertcan, Gürhanlı Ahmet. “Makine Öğrenmesi Yöntemleri ile Kalp Hastalığının Tahmin Edilmesi”, in Proc. of 5th International Congress on Engineering, Architecture and Design, İstanbul, December 2019
2. Ahmet Gürhanlı, “Effect of Batch Size on Accuracy of ProMoD Backpropagation Algorithm Used in Image Recognition”, in Proceedings of International Symposium on Engineering Natural Sciences and Architecture KOCAELI 2019
3. Ahmet Gürhanlı, “Image Recognition using ProMoD Backpropagation Algorithm”, in Proceedings of Applied Research international conference on Millennial Technology Challenges (ARICMTC) ISTANBUL 2019
4. Ahmet Gürhanlı, Charlie Chung-Ping Chen, Shih-Hao Hung, “GOP-Level Parallelization of the H.264 Decoder without a Start-Code Scanner,” in *Proc. of 2010 IEEE International Conference on Signal Processing Systems (ICSPS 2010)*, Dalian, China, July 2010.

Book Chapters:

1. Innovations in Bio-Inspired Computing and Applications, Chapter Name: (Effect of Derivative Action on Back-Propagation Algorithms) (2019)., Gürhanlı Ahmet, Taner Çevik, Nazife Çevik, Springer, Editor: Ajith Abraham Niketa, Gandhi Millie Pant, Edition:1, Page Number 7, ISBN:978-3-030-16681-6

Lectured Courses:

1. Computer Programing (C) (English)
2. Computer Organization (English)
3. Visual Programming (English)
4. Advanced Computer Architecture (Graduate Course, Turkish)
5. Microprocessors (English, Turkish)
6. Introduction to Computer Science (English, Turkish)
7. Operating Systems (Turkish)
8. Discrete Mathematics (English)
9. Object Oriented Programming (Turkish)
10. Numerical Methods (English)
11. Algorithmic Mathematics (English)

Work Experience:

1. TECO Electric & Machinery Co. Ltd. – R&D Engineer (August 2011 – August 2013)
2. TECO Elektrik Turkey Co. Inc. – Business Development Manager (August 2013 – August 2014)
3. Bursa Orhangazi University – Dept. of Computer Engineering – Assistant Professor and Chairman (September 2014 – July 2016)
4. AVEN Electronics Engineering Trading Co. Inc. – Chairman – (October 2015 – December 2019)
5. Optimal Project Management Co. Ltd. – Electrical Control Engineer – (February 2017 - April 2018)
6. Istinye University – Dept. of Electrical and Electronics Engineering – Assistant Professor (May 2018 - July 2018)

7. Istanbul Aydin University – Dept. of Computer Engineering – Assistant Professor and Vice Chairman (Since July 2018)