

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 Positions:

1. Istanbul Aydin University – Dept. of Computer Engineering – Assistant Professor (Since July 2018)
2. AVEN Electronics Engineering Trading Co. Inc. – Chairman

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:

Computer Architecture, Embedded Systems, Parallel Programming, Deep Learning

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++, C#

Hardware Description Language: Verilog

Work Experience:

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

Journal Papers (SCI, SCI-Expanded):

1. Charlie Chung Ping Chen, **Ahmet Gürhanlı**, 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.
2. 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
3. **Ahmet Gürhanlı**, “Accelerating Processors with Simple Touches”, Acta Physica Polonica Series A 130(1):252-255 · July 2016 DOI: 10.12693/APhysPolA.130.252
4. **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

Other Journal Papers

1. **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. **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.

Lectured Courses:

1. Computer Programing (English)
2. Computer Architecture (English)
3. Visual Programming (English)
4. Advanced Computer Architecture (Graduate Course, Turkish)
5. Microprocessors (Turkish)