

## Asst. Prof. Zeyneb KURT

### Personal Information

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**Post Address:** Yıldız Teknik Üniversitesi Elektrik Elektronik Fakültesi Bilgisayar Mühendisliği Bölümü D Blok, D-219, Davutpaşa Mah. Davutpaşa Caddesi 34220 Esenler İstanbul TÜRKİYE

### Education Information

Post Doctorate, University of California, Los Angeles, Integrative Biology and Physiology, United States Of America 2015 - 2018

Post Doctorate, The Private University for Health Sciences, Medical Informatics and Technology , Austria 2014 - 2014

Doctorate, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Computer Engineering, Turkey 2007 - 2013

Post Graduate, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Computer Engineering, Turkey 2005 - 2007

Under Graduate, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Computer Engineering, Turkey 2001 - 2005

### Foreign Languages

English, C1 Advanced

### Research Areas

Computer Sciences, algorithms, Computer Vision, bioinformatics, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Computer Engineering, 2018 - Continues

Other, University Of California, Los Angeles, Integrative Biology And Physiology, Integrative Biology And Physiology - Yang Lab, 2015 - 2018

Research Assistant PhD, Yıldız Teknik Üniversitesi, Elektrik Elektronik , Bilgisayar Muhendisligi, 2013 - 2018

Other, --Seçiniz--, Umit (Private Universität Für Gesundheitswissenschaften, Medizinische Informatik Und Technik), Biomedical Computer Science And Mechatronics, 2014 - 2014

Research Assistant, Yıldız Teknik Üniversitesi, Elektrik Elektronik , Bilgisayar Muhendisligi, 2005 - 2013

### Professional Experience

Erasmus Coordinator, Yıldız Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2018 - Continues

Orientation committee member, Yıldız Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2012 - 2015

### Courses

Discrete Mathematics and Combinatorics, Post Graduate, 2018 - 2019, 2019 - 2020

Structured Programming, Under Graduate, 2018 - 2019, 2019 - 2020  
Introduction to Bioinformatics, Under Graduate, 2019 - 2020  
Numerical Analysis, Under Graduate, 2018 - 2019  
Statistical Data Analysis, Under Graduate, 2018 - 2019  
Discrete Mathematics, Under Graduate, 2018 - 2019, 2019 - 2020  
Seminar, Under Graduate, 2018 - 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **The Genetic Architecture of Diet-Induced Hepatic Fibrosis in Mice**  
Hui S. T. , Kurt Z., Tuominen I., Norheim F., Davis R. C. , Pan C., Dirks D. L. , Magyar C. E. , French S. W. , Krishnan K. C. , et al.  
HEPATOLOGY, vol.68, pp.2182-2196, 2018 (Journal Indexed in SCI)
- **Tissue-specific pathways and networks underlying sexual dimorphism in non-alcoholic fatty liver disease**  
Kurt Z., Barrere-Cain R., Laguardia J., Mehrabian M., Pan C., Hui S. T. , Norheim F., Zhou Z., Hasin Y., Lusic A. J. , et al.  
BIOLOGY OF SEX DIFFERENCES, vol.9, 2018 (Journal Indexed in SCI)
- **The Memory of Environmental Chemical Exposure in C. elegans Is Dependent on the Jumonji Demethylases jmjd-2 and jmjd-3/utx-1**  
Camacho J., Truong L., Kurt Z., Chen Y., Morselli M., Gutierrez G., Pellegrini M., Yang X., Allard P.  
CELL REPORTS, vol.23, pp.2392-2404, 2018 (Journal Indexed in SCI)
- **Integration of Multi-omics Data from Mouse Diversity Panel Highlights Mitochondrial Dysfunction in Non-alcoholic Fatty Liver Disease**  
Krishnan K. C. , Kurt Z., Barrere-Cain R., Sabir S., Das A., Floyd R., Vergnes L., Zhao Y., Che N., Charugundla S., et al.  
CELL SYSTEMS, vol.6, pp.103-122, 2018 (Journal Indexed in SCI)
- **Estimation of the proteomic cancer co-expression sub networks by using association estimators**  
Erdogan C., Kurt Z., Diri B.  
PLOS ONE, vol.12, 2017 (Journal Indexed in SCI)
- **Shared genetic regulatory networks for cardiovascular disease and type 2 diabetes in multiple populations of diverse ethnicities in the United States**  
Shu L., Chan K. H. K. , Zhang G., Huan T., Kurt Z., Zhao Y., Codoni V., Tregouet D., Consortium C., Yang J., et al.  
PLOS GENETICS, vol.13, 2017 (Journal Indexed in SCI)
- **Applications and Limitations of Mouse Models for Understanding Human Atherosclerosis**  
Von Scheidt M., Zhao Y., Kurt Z., Pan C., Zeng L., Yang X., Schunkert H., Lusic A. J.  
CELL METABOLISM, vol.25, pp.248-261, 2017 (Journal Indexed in SCI)
- **Mergeomics: multidimensional data integration to identify pathogenic perturbations to biological systems**  
Shu L., Zhao Y., Kurt Z., Byars S. G. , Tukiainen T., Kettunen J., Orozco L. D. , Pellegrini M., Lusic A. J. , Ripatti S., et al.  
BMC GENOMICS, vol.17, 2016 (Journal Indexed in SCI)
- **Comprehensive review of association estimators for the inference of gene networks**  
Kurt Z., Aydin N., Altay G.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.695-750, 2016 (Journal Indexed in SCI)
- **Structural Analysis of Treatment Cycles Representing Transitions between Nursing Organizational Units Inferred from Diabetes**  
Dehmer M., Kurt Z., Emmert-Streib F., Them C., Schulc E., Hofer S.  
PLOS ONE, vol.10, 2015 (Journal Indexed in SCI)
- **A comprehensive comparison of association estimators for gene network inference algorithms**  
Kurt Z., Aydin N., Altay G.  
BIOINFORMATICS, vol.30, pp.2142-2149, 2014 (Journal Indexed in SCI)

- **Netmes: Assessing Gene Network Inference Algorithms by Network-Based Measures**

Altay G., Kurt Z., Dehmer M., Emmert-Streib F.

EVOLUTIONARY BIOINFORMATICS, vol.10, pp.1-9, 2014 (Journal Indexed in SCI)

## Book & Book Chapters

- **in: Lecture Notes in Electrical Engineering: Proceedings of the European Computing Conference 2007**

KURT Z., TÜRKMEN ÇİLİNGİR H. İ. , KARSLIGİL YAVUZ M. E.

Linear Discriminant Analysis in Ottoman Alphabet Character Recognition, Mastorakis N., Mladenov V., Kontargyri V. , Editor, Springer-Verlag , Atina, pp.601-607, 2009

## Refereed Congress / Symposium Publications in Proceedings

- **The Co-expression measures' Effect on the Integration of Proteomic and Gene Expression Data for Gene Regulatory Network Inference Methods**

Erdoğan C., Kurt Z., Diri B.

2nd International Conference on Mathematical Advancers and Applications, İstanbul, Turkey, 03 Mayıs 2019, pp.1

- **Cross-species Comparison of Genetic Networks of Coronary Artery Disease**

KURT Z., Barrere-Cain R. E. , Sun C., Zhao Y., Pan C., Ruusalepp A., Franzén O., Koplev S., Bjorkegren J. L. , Lusi A. J. , et al.

Vascular Discovery: From Genes to Medicine Scientific Sessions, San Francisco, United States Of America, 09 Mayıs 2018, pp.1

- **Multi-omics integration to understand sexual dimorphic mechanisms in non-alcoholic fatty liver disease**

KURT Z., Barrere-Cain R., Pan C., Hui S., Lusi A. J. , Yang X.

Cell Symposia: Metabolic Disease Therapies, San Diego, United States Of America, 15 Ekim 2017, pp.1

- **An Analysis of the Association Estimators in Biological Network Inference Algorithms on Glioblastoma Multiforme Proteomic Data**

Erdoğan C., KURT Z., DİRİ B.

International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 03 Temmuz 2017, pp.1-5

- **Investigation of association estimators in network inference algorithms on breast cancer proteomic data Ağ Çıkarım Algoritmalarındaki İlişki Tahmincilerinin Meme Kanseri Proteomik Verileri Üzerinde İncelenmesi**

Erdogan C., KURT Z., DİRİ B.

25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 Mayıs 2017

- **Ağ Çıkarım Algoritmalarındaki İlişki Tahmincilerinin Meme Kanseri Proteomik Verileri Üzerinde İncelenmesi**

Erdoğan C., KURT Z., DİRİ B.

IEEE 25. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, 15 Mayıs 2017, pp.1-5

- **Renkli Resimlerin Kayıplı Sıkıştırılmasında Farklı renk Uzaylarının Etkisi**

Böke S. B. , DİRİ B., KURT Z.

18. Sinyal İşleme ve Uygulama Kurultayı, Diyarbakır, Turkey, 22 Nisan 2010, pp.1-5

- **A simultaneous localization and map building algorithm based on Sequential Monte Carlo method Sıralı Monte Carlo yöntemine dayalı eş zamanlı konum belirleme ve haritalama algoritması**

Kurt Z., Yavuz S.

2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 Nisan 2008

- **Global Feature Based Female facial Beauty Decision System**

TÜRKMEN ÇİLİNGİR H. İ. , KURT Z., KARSLIGİL YAVUZ M. E.

The 15th European Signal Processing Conference - 2007, Poznan, Poland, 03 Eylül 2007, pp.1945-1949

- **Eş Zamanlı Konum Belirleme ve Harita Oluşturma Amaçlı Otonom Bir Robot**

Yavuz S., Amasyalı M. F. , Balçılar M., Bilgin G., Dinç T., Kurt Yavuz Z.

- **Linear Discriminant Analysis in Ottoman Alphabet Character Recognition**  
KURT Z., Turkmen H. I. , Karşligil M. E.  
European Computer Conference-ECC, (Lecture Notes in Electrical Engineering, 2009)
- **Türk İşaret Dili Yüz İfadesi ve Baş Hareketi Veritabanı**  
Ari İ., Güvensan A., Haberdar H., KURT Z., Türkmen İ., Uyar A., Akarun L.  
Sinyal İşleme Uygulamaları (SİU)
- **Türk İşaret Diline Yönelik Yüz İfadesi ve Kafa Hareketi Tanıma Sistemi**  
KURT Z., Uyar A., Türkmen H. İ.  
Sinyal İşleme Uygulamaları (SİU)
- **Makine Öğrenmesine Dayalı Çeşitli Spam Filtresi Yöntemlerinin Kıyaslanması**  
KURT Z., Alpaydın E.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu (ASYU)
- **Erkek ve Kadın Yüzünü Ayırt Etmede Özellik Çıkarımı ve Özellik Seçimi Yöntemlerinin Kullanılması**  
Kaymakcioglu U., KURT Z.  
Sinyal İşleme Uygulamaları (SİU)
- **Influence of the Copula Transform on the Association Estimators for Gene Network Inference**  
KURT Z., AYDIN N., ALTAY G.  
International Conference on Applied Informatics for Health and Life Sciences (AIHLS)
- **Assessing the Biological Consistency in Atherosclerosis Susceptibility Genes Between Mouse and Human Genetic Studies**  
Zhao Y., KURT Z., Schunkert H., Yang X., Lusic A. J.  
American Heart Association (AHA) Arteriosclerosis, Thrombosis and Vascular Biology/Peripheral Vascular Disease (ATVB/PVD)
- **Öznitelik Seçimi Yöntemlerinin Kıyaslanması**  
KURT Z., Karşligil M. E.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu (ASYU)
- **Comparison of Several Classification Algorithms for Gender Recognition from Face Images**  
Yanbol F., KURT Z.  
IEEE 16th International Conference on Intelligent Engineering Systems 2012
- **Integration of Aorta Network Models from Mouse Ath-HMDP with Human GWAS Reveals Novel Mechanisms of Coronary Artery Disease**  
KURT Z., Bennett B. J. , Davis R. C. , Pan C., Zhao Y., Codoni V., Tréguouët D., Zhang B., Lusic A. J. , Yang X.  
American Heart Association (AHA) Arteriosclerosis, Thrombosis and Vascular Biology/Peripheral Vascular Disease (ATVB/PVD)
- **DAA Yöntemi ile Osmanlıca Karakter Tanıma**  
KURT Z., Türkmen H. İ. , Karşligil M. E.  
Sinyal İşleme Uygulamaları (SİU)
- **Improvement of the Measurement Update Step of EKF-SLAM**  
Kurt Yavuz Z., Kurt Yavuz Z.  
IEEE 16th International Conference on Intelligent Engineering Systems INES 2012
- **A Comparison of EKF, UKF, FastSLAM2.0, and UKF-based FastSLAM Algorithms**  
Kurt Yavuz Z., Kurt Yavuz Z.  
IEEE 16th International Conference on Intelligent Engineering Systems INES 2012
- **Impacts of the Different Spline Orders on the B-spline Association Estimator**  
KURT Z., AYDIN N., ALTAY G.  
13th IEEE International Conference on Bioinformatics and BioEngineering (BIBE)

## Other Publications

- **DepEst: an R package of important dependency estimators for gene network inference algorithms**  
Altay G., Kurt Z., Altay N., AYDIN N.

Other, pp.1-22, 2017

## **Supported Projects**

KURT Z., Other Supported Projects, Understanding Sexual Dimorphism of Non-Alcoholic Fatty Liver Disease via Big Data Integration, 2017 - 2018

KURT Z., Other Supported Projects, Cross-species Comparison of Genetic Networks of Cardiometabolic Disorders, 2017 - 2018

## **Scientific Research / Working Group Memberships**

American Heart Association, American Heart Association (AHA), Amerika Birleşik Devletleri, <http://www.heart.org/HEARTORG/>, 2015 - Continues

Yang Lab, University of California, Los Angeles, Amerika Birleşik Devletleri, <https://yanglab.ibp.ucla.edu/>, 2015 - 2018

## **Citations**

Total Citations (WOS):159

h-index (WOS):8

## **Scholarships**

Postdoctoral Fellowship for 2-years, Official Institutions of Foreign Countries, 2017 - Continues

Postdoctoral Fellowship - 1 year, Official Institutions of Foreign Countries, 2017 - Continues

## **Awards**

KURT Z., Robocup - Simulasyon ligi, Robocup Iran open, April 2012

KURT Z., Bilgisayar Muhendisligi, Lisans Mezuniyeti Ikinciligi, Yıldız Teknik Universitesi, September 2005