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Eğitim Bilgileri

Doktora, Georgia Institute of Technology, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, Amerika Birleşik Devletleri 2002 - 2008
Yüksek Lisans, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, Türkiye 1999 - 2001
Lisans, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, Türkiye 1995 - 1999

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Bayesian Models and Algorithms for Protein Beta-Sheet Prediction, Georgia Institute Of Technology, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, 2008
Yüksek Lisans, A Novel Approach for Time-Frequency Localized Signal Design, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, 2001

Araştırma Alanları

Bilgisayar Bilimleri, Biyoenformatik, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2020 - Devam Ediyor
Dr.Öğr.Üyesi, Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2014 - 2020

Verdiği Dersler

Machine Learning, Yüksek Lisans, 2017 - 2018
Analysis of Algorithms, Lisans, 2017 - 2018

Algorithms, Lisans, 2016 - 2017
Data Mining, Yüksek Lisans, 2015 - 2016, 2014 - 2015
Object Oriented Programming, Lisans, 2015 - 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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VI. **The Determination of Distinctive Single Nucleotide Polymorphism Sets for the Diagnosis of Behcet's Disease**
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IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, cilt.19, sa.3, ss.1909-1918, 2022 (SCI-Expanded)

VII. **A Continuously Benchmarked and Crowdsourced Challenge for Rapid Development and Evaluation of Models to Predict COVID-19 Diagnosis and Hospitalization**
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VIII. **IGPRED: Combination of convolutional neural and graph convolutional networks for protein secondary structure prediction**
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PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS, cilt.89, sa.10, ss.1277-1288, 2021 (SCI-Expanded)

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SOFT COMPUTING, cilt.25, sa.8, ss.6391-6400, 2021 (SCI-Expanded)

X. **Crowdsourcing digital health measures to predict Parkinson's disease severity: the Parkinson's Disease Digital Biomarker DREAM Challenge**
Sieberts S. K., Schaff J., Duda M., Pataki B. A., Sun M., Snyder P., Daneault J., Parisi F., Costante G., Rubin U., et al.
NPJ DIGITAL MEDICINE, cilt.4, sa.1, 2021 (SCI-Expanded)

XI. **Effect of interpolation on specular reflections in texture-based automatic colonic polyp detection**
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WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, cilt.10, sa.5, 2020 (SCI-Expanded)

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YENGEÇ TAŞDEMİR S. B., Tasdemir K., Aydin Z.
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II. **FBSEM: A Novel Feature-Based Stacked Ensemble Method for Sentiment Analysis**
Görmez Y., Işık Y. E., Temiz M., Aydın Z.
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III. **Performance Analysis of Machine Learning and Bioinformatics Applications on High Performance Computing Systems**
AYDIN Z.
Academic Platform Journal of Engineering and Science, cilt.8, sa.1, ss.1-14, 2020 (Hakemli Dergi)

IV. **New modeling of reconfigurable microstrip antenna using hybrid structure of simulation driven and knowledge based artificial neural networks**
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PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.26, sa.5, ss.935-943, 2020 (ESCI)

V. **Classification of Cardiovascular Artery Diseases Using Artificial Neural Network**
HACILAR H., GÖRMEZ Y., GÜNGÖR B., Gezer C., AYDIN Z., GÜNGÖR V. Ç.
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VI. **Intelligent Anomaly Detection Techniques for Denial of Service Attacks**
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Kitap & Kitap Bölümleri

I. **Digitalization in Smart City Solutions, The Traffic Flow Prediction in New York City, U.S.A.**
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Architectural Sciences and Recent Approaches and Trends in Urban and Regional Planning, Kübra Cihangir Çamur,Şirin Gülcan Eren, Editör, İksad Yayınevi, Ankara, ss.119-151, 2023

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **A Transfer Learning Approach for Skin Cancer Subtype Detection**
Kolukısa B., Görmez Y., Aydın Z.
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II. **ROSE: A Novel Approach for Protein Secondary Structure Prediction**
Görmez Y., Aydın Z.
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III. **Data Mining Techniques in Direct Marketing on Imbalanced Data using Tomek Link Combined with Random Under-sampling**
Yllmaz Ü., Gezer C., Aydln Z., GÜNGÖR V. Ç.
5th International Conference on Information System and Data Mining, ICISDM 2021, Virtual, Online, Amerika Birleşik Devletleri, 27 - 29 Mayıs 2021, ss.67-73

IV. **Classification of Cardiovascular Artery Diseases based on Deep Neural Network**
Hacılar H., GÖRMEZ Y., GÜNGÖR B., Gezer C., AYDIN Z., GÜNGÖR V. Ç.
3rd Int. Conference on Information System and Data Mining (ICISDM 2019), Texas, Amerika Birleşik Devletleri, 6 - 08 Nisan 2019

V. **NSEM: Duygu Analizi için Özgün Yığınlanmış Topluluk Yöntemi(NSEM: Novel Stacked Ensemble Method for Sentiment Analysis)**
IŞIK Y. E., GÖRMEZ Y., KAYNAR O., AYDIN Z.
IEEE 2018 International Conference on Artificial Intelligenceand Data Processing (IDAP), Malatya, Türkiye, 28 - 30 Eylül 2018, ss.1-4

VI. **ROI Detection in Mammogram Images using Wavelet-Based Haralick and HOG Features**
Tasdemir S. B. Y., TAŞDEMİR K., AYDIN Z.
17th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA), Florida, Amerika Birleşik Devletleri, 17 - 20 Aralık 2018, ss.105-109

VII. **H2O Otomatik Makine Öğrenme Algoritmasının Metabolomik Verilerinde Performansının Araştırılması**
ÜNLÜSAVURAN M., ERTÜRK ZARARSIZ G., ZARARSIZ G., İPEKTEN F., KORKMAZ S., GÖKSÜLÜK D., DOĞAN H. O., ELDEM V., ERKORKMAZ Ü., KOÇYİĞİT İ., et al.
XX. Ulusal ve III. Uluslararası Biyoistatistik Kongresi, 26 - 29 Ekim 2018

VIII. **NSEM: Novel Stacked Ensemble Method for Sentiment Analysis**
Emre Isik Y., GÖRMEZ Y., KAYNAR O., AYDIN Z.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Türkiye, 28 - 30 Eylül 2018

IX. **Protein İkincil Yapı Tahmini için NR ve UniClustVeri Tabanlarının Karşılaştırılması (Comparison of NR and UniClust databases for protein secondary structure prediction)**
AYDIN Z., KAYNAR O., GÖRMEZ Y.

IEEE Conferences 2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4

X. **Protein İkincil Yapı Tahmini İçin Makine Öğrenmesi Yöntemlerinin Karşılaştırılması (Comparison of machine learning classifiers for protein secondary structure prediction)**
AYDIN Z., KAYNAR O., GÖRMEZ Y., IŞIK Y. E.
IEEE Conferences 2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018, cilt.1

XI. **A Novel Feature Design and Stacking Approach for Non-Technical Electricity Loss Detection**
AYDIN Z., GÜNGÖR V. Ç.
2018 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia), Singapore, Singapur, 22 - 25 Mayıs 2018

XII. **Protein Secondary Structure Prediction Using Support Vector Machine and Hierarchical Clustering**
ATASEVER S., AYDIN Z., ERBAY H.
WC BIG DATA 2018, KUŞADASI, Türkiye, 28 - 30 Nisan 2018

XIII. **Ceph-based Storage Server Application**
Azginoglu N., Eren M. A., ÇELİK M., AYDIN Z.
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Türkiye, 22 - 25 Mart 2018, ss.408-411

XIV. **Open Source SLURM Computer Cluster System Design and a Sample Application**
Azgınoğlu N., Atasever U., AYDIN Z., Çelik M., Erbay H.
IEEE International Conference on Computer Science and Engineering, Antalya, Türkiye, 5 - 08 Ekim 2017, ss.403-406

XV. **Feature Selection for Protein Dihedral Angle Prediction**
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9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Kıbrıs (Kktc), 16 - 17 Eylül 2017, ss.48-52

XVI. **Combining Classifiers for Protein Secondary Structure Prediction**
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XVII. **Discovering Biomarkers for Early Prognosis of Respiratory Virus Infection**
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XVIII. **Identifying Discriminative Scores of HMM-profile Alignments by Feature Selection**
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International Symposium on Health Informatics and Bioinformatics, Muğla, Türkiye, 16 - 17 Ekim 2015, ss.1

XIX. **Development of Knowledge Based Response Correction for a Reconfigurable N-Shaped Microstrip Antenna Design**
Aoad A., Şimşek M., AYDIN Z.
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XX. **Short Term Electricity Load Forecasting: A Case Study of Electric Utility Market in Turkey**
YASİN M., GÖZE T., ÖZCAN İ., GÜNGÖR V. Ç., AYDIN Z.
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XXII. **Template Scoring Methods for Protein Torsion Angle Prediction**
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XXIII. **Design of a tri band 5-fingers shaped microstrip patch antenna with an adjustable resistor**
Aoad A., AYDIN Z., Korkmaz E.
IEEE International Conference on Antenna Measurements and Applications, Antibes Juan-Les-Pins, Fransa, 16 - 19 Ekim 2014, ss.1-4

XXIV. **A method for extraction of affective audio-visual facial clips from movies**
Turan Ç., Kansın C., Zhalehpour S., AYDIN Z., EROĞLU ERDEM Ç.
IEEE Signal Processing and Applications Conference, Türkiye, 24 - 26 Nisan 2013

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XXVI. **Protein function prediction with amino acid sequence and secondary structure alignment scores**
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XXVII. **Training set reduction methods for protein secondary structure prediction in single-sequence condition**
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XXVIII. **Yetim proteinlerde ikincil yapı öngörüsü için eğitim kümesi indirgeme yöntemleri**
PAKATÇI İ. K., AYDIN Z., ERDOĞAN H., ALTUNBAŞAK Y.
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XXX. **A modified stack decoder for protein secondary structure prediction**
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XXXI. **Protein secondary structure prediction with semi Markov HMMs**
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XXXII. **A new approach to time-frequency localized signal design**
ÖZDEMİR A. K., AYDIN Z., ARIKAN O.
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Aydın Z., Zararsız G., TÜBİTAK Projesi, Otozomal Dominant Polikistik Böbrek Hastalığının Progresyonunda Metabolomik Temelli Makine Öğrenimi Yaklaşımları ile Kişiye Özel Takip Raporunun Oluşturulması, 2022 - 2024

Yılmaz B., Doğan R. S., AYDIN Z., TÜBİTAK Projesi, Kolon Polipleri için Kolonoskopi ve Histopatoloji Görüntülerinden Yapay Zekâ Destekli Prognostik Belirteç Tespiti, 2021 - 2023

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Bilimsel Dergilerdeki Faaliyetler

TURKISH JOURNAL OF BIOLOGY, Editör, 2014 - 2015

Bilimsel Hakemlikler

Knowledge and Information Systems, SCI Kapsamındaki Dergi, Ekim 2017
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Proceesings of IEEE Signal Processing and Communication Applications Conference, Hakemli Bilimsel Dergi, Mart 2017
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TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Kapsamındaki Dergi, Kasım 2015
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Metrikler

Yayın: 72
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Atıf (Scopus): 167
H-İndeks (WoS): 3
H-İndeks (Scopus): 6

Kongre ve Sempozyum Katılımı Faaliyetleri

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