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Personal Information

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Education Information

Doctorate, Georgia Institute Of Technology, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, United States Of America 2002 - 2008

Post Graduate, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, Turkey 1999 - 2001

Under Graduate, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, Turkey 1995 - 1999

Dissertations

Doctorate, Bayesian Models and Algorithms for Protein Beta-Sheet Prediction, Georgia Institute Of Technology, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, 2008

Post Graduate, A Novel Approach for Time-Frequency Localized Signal Design, Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği, 2001

Research Areas

Computer Sciences, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

Courses

Machine Learning, Post Graduate, 2017 - 2018

Analysis of Algorithms, Under Graduate, 2017 - 2018

Data Mining, Post Graduate, 2014 - 2015, 2015 - 2016

Object Oriented Programming, Under Graduate, 2015 - 2016

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

- **A review of mammographic region of interest classification**
Yengec Tasdemir S. B. , TAŞDEMİR K., AYDIN Z.
WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, vol.10, 2020 (Journal Indexed in SCI)
- **A deep learning approach with Bayesian optimization and ensemble classifiers for detecting denial of service attacks**
Gormez Y., AYDIN Z., Karademir R., GÜNGÖR V. Ç.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, 2020 (Journal Indexed in SCI)

- **Effect of interpolation on specular reflections in texture-based automatic colonic polyp detection**
Kacmaz R. N. , YILMAZ B., AYDIN Z.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, 2020 (Journal Indexed in SCI)
- **Lung cancer subtype differentiation from positron emission tomography images**
AYYILDIZ O., AYDIN Z., YILMAZ B., KARAÇAVUŞ S., Senkaya K., İÇER S., Tasdemir A., Kaya E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, pp.262-274, 2020 (Journal Indexed in SCI)
- **Structural profile matrices for predicting structural properties of proteins**
Azginoglu N., AYDIN Z., ÇELİK M.
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, vol.18, 2020 (Journal Indexed in SCI)
- **A crowdsourced analysis to identify ab initio molecular signatures predictive of susceptibility to viral infection**
Fourati S., Taa A., Mahmoudian M., Burkhart J. G. , Klen R., Henao R., Yu T., AYDIN Z., Yeung K. Y. , Ahsen M. E. , et al.
NATURE COMMUNICATIONS, vol.9, 2018 (Journal Indexed in SCI)
- **Dimensionality reduction for protein secondary structure and solvent accesibility prediction**
AYDIN Z., KAYNAR O., GÖRMEZ Y.
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, vol.16, 2018 (Journal Indexed in SCI)
- **Protein beta-sheet prediction using an efficient dynamic programming algorithm**
Sabzekar M., Naghibzadeh M., Eghdami M., AYDIN Z.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.70, pp.142-155, 2017 (Journal Indexed in SCI)
- **Knowledge based response correction method for design of reconfigurable N-shaped microstrip patch antenna using inverse ANNs**
AOAD A., ŞİMŞEK M., AYDIN Z.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.30, 2017 (Journal Indexed in SCI)
- **BAUM-2: a multilingual audio-visual affective face database**
Erdem C. E. , TURAN Ç., AYDIN Z.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.74, pp.7429-7459, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Sentiment Analizinde Öznitelik Düşürme Yöntemlerinin Oto Kodlayıcı Derin Öğrenme Makinaları ile Karşılaştırılması**
Kaynar O., AYDIN Z., Görmez Y.
International Journal of Informatics Technologies, vol.10, pp.319-326, 2017 (International Refereed University Journal)
- **Template Scoring Methods for Protein Torsion Angle Prediction**
AYDIN Z., Baker D., Noble W. S.
Communications in Computer and Information Science, vol.574, pp.206-223, 2016 (Refereed Journals of Other Institutions)
- **Design of a Reconfigurable 5-Fingers Shaped Microstrip Patch Antenna by Artificial Neural Networks**
Aoad A., Şimşek M., AYDIN Z.
International Journal of Advanced Research in Computer Science and Software Engineering, vol.4, pp.61-70, 2014 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **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, United States Of America, 17 - 20 December 2018, pp.105-109

● **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, Turkey, 28 - 30 September 2018

● **Ceph-based Storage Server Application**

Azginoglu N., Eren M. A. , ÇELİK M., AYDIN Z.

6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.408-411

● **Open Source SLURM Computer Cluster System Design and a Sample Application**

Azginoglu N., Atasever U., AYDIN Z., Çelik M., Erbay H.

IEEE International Conference on Computer Science and Engineering, Antalya, Turkey, 5 - 08 October 2017, pp.403-406

● **Combining Classifiers for Protein Secondary Structure Prediction**

AYDIN Z., Uzut O. G.

9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus (Kktc), 16 - 17 September 2017, pp.29-33

● **Feature Selection for Protein Dihedral Angle Prediction**

AYDIN Z., KAYNAR O., GÖRMEZ Y.

9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus (Kktc), 16 - 17 September 2017, pp.48-52

● **Identifying Discriminative Scores of HMM-profile Alignments by Feature Selection**

AYDIN Z., ERDEM H. E. , UZUT Ö. G.

International Symposium on Health Informatics and Bioinformatics, Muğla, Turkey, 16 - 17 October 2015, pp.1

● **Development of Knowledge Based Response Correction for a Reconfigurable N-Shaped Microstrip Antenna Design**

Aoad A., Şimşek M., AYDIN Z.

IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization, Ottawa, Canada, 11 - 14 August 2015, pp.1-3

● **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.

International Istanbul Smart Grid Congress And Exhibition, İstanbul, Turkey, 29 - 30 April 2015, pp.1-5

● **Constructing structural profiles for protein torsion angle prediction**

AYDIN Z., BAKER D., NOBLE W. S.

Bioinformatics, Lizbon, Portugal, 12 - 15 January 2015, pp.26-35

● **Template Scoring Methods for Protein Torsion Angle Prediction**

AYDIN Z., Baker D., Noble W. S.

8th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC), Lisbon, Portugal, 12 - 15 January 2015, vol.574, pp.206-223

● **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, France, 16 - 19 October 2014, pp.1-4

Supported Projects

AYDIN Z., TUBITAK Project, Zenginleştirilmiş Öznitelikler ve Makine Öğrenmesi Teknikleri ile Protein Yerel Yapı Tahmini, 2014 - 2017

GÜNGÖR V. Ç. , AYDIN Z., TUBITAK Project, Elektrik Kayıp-Kaçak Analizi ve Talep Tahmini için Çoklu İletişim Arayüzü

Destekleyen Telemetrik Gömülü Sistem Tasarımı ve Geliştirilmesi, 2013 - 2016

Activities in Scientific Journals

TURKISH JOURNAL OF BIOLOGY, Editor, 2014 - 2015

Scientific Refereeing

Knowledge and Information Systems, SCI Journal, October 2017

Knowledge and Information Systems, SCI Journal, May 2017

Proceesings of IEEE Signal Processing and Communication Applications Conference, National Scientific Refreed Journal, March 2017

Proceesings of IEEE Signal Processing and Communication Applications Conference, National Scientific Refreed Journal, March 2017

Proceesings of IEEE Signal Processing and Communication Applications Conference, National Scientific Refreed Journal, March 2017

Academic Platform Journal of Engineering and Science, Other journals, October 2016

Knowledge and Information Systems, SCI Journal, October 2016

Knowledge and Information Systems, SCI Journal, July 2016

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, June 2016

Knowledge and Information Systems, SCI Journal, May 2016

Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal, January 2016

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, November 2015

Knowledge and Information Systems, SCI Journal, May 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, March 2015

Invited Congress and Symposium Activities

DARPA Prometheus Program Kickoff, Attendee, Virginia, United States Of America, 2017

RECOMB/ISCB Conference on Regulatory & Systems Genomics with DREAM Challenges & Cytoscape Workshop, Attendee, Arizona, United States Of America, 2016

Citations

Total Citations (WOS):26

h-index (WOS):3