

Asst. Prof. ÖZLEM POLAT

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 2009 - 2015

Post Graduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 2006 - 2009

Under Graduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2001 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Protein Fold Classification and Motif Retrieval Methods by Using the Primary and Secondary Structures, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, 2015

Post Graduate, Yüz resimlerinden cinsiyet tayini, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, 2009

Research Areas

bioinformatics, Biocomputing, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Pattern Recognition and Image Processing, Neural Networks, Biomedical Image Processing, Bioinformatics

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Biyomedikal Mühendisliği Bölümü, 2016 - 2017

Research Assistant, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2013 - 2016

Research Assistant, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2006 - 2013

Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2020 - Continues

Bölüm Kalite Komisyonu Üyesi, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2019 - Continues

Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2017 - Continues

Deputy Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2018 - 2020

Farabi Coordinator, Sivas Cumhuriyet University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2014 - 2016

Courses

Elektrik Devreleri, Under Graduate, 2018 - 2019

Seminer Dersi, Post Graduate, 2018 - 2019

Elektrik Devreleri, Under Graduate, 2018 - 2019

Mantık Devreleri, Under Graduate, 2018 - 2019

İşyeri Eğitimi, Under Graduate, 2019 - 2020

Uzmanlık Alan Dersi, Post Graduate, 2019 - 2020

Elektronik - I, Under Graduate, 2019 - 2020

Sinyaller ve Sistemler, Under Graduate, 2019 - 2020

Bitirme Projesi, Under Graduate, 2018 - 2019

Bitirme Projesi, Under Graduate, 2019 - 2020

İşyeri Eğitimi, Under Graduate, 2019 - 2020

Mantık Devreleri, Under Graduate, 2018 - 2019

Sinyaller ve Sistemler, Under Graduate, 2018 - 2019

Mesleki İngilizce - II, Under Graduate, 2017 - 2018

Sinyaller ve Sistemler, Under Graduate, 2018 - 2019

Elektronik - I, Under Graduate, 2018 - 2019

Mesleki İngilizce - II, Under Graduate, 2017 - 2018

Elektronik I, Under Graduate, 2018 - 2019

Teknik Çeviri, Under Graduate, 2017 - 2018

Mesleki İngilizce - I, Under Graduate, 2017 - 2018

Mikrodenetleyiciler, Under Graduate, 2015 - 2016

Mikrodenetleyiciler, Under Graduate, 2015 - 2016

Teknik Çeviri, Under Graduate, 2016 - 2017

Sayısal Denetim, Under Graduate, 2016 - 2017

Mesleki İngilizce - II, Under Graduate, 2015 - 2016

Sayısal Denetim, Under Graduate, 2016 - 2017

Mesleki İngilizce - II, Under Graduate, 2015 - 2016

Advising Theses

Polat Ö., Sualtı Haberleşme Tekniklerinin Karşılaştırılması: Optik Haberleşme Örneği, Post Graduate, Y.Bayraktar(Student), 2020

Polat Ö., Beyin Tümörlerinin Derin Öğrenme ile Manyetik Rezonans Görüntülerinden Sınıflandırılması, Post Graduate, C.Güngen(Student), 2020

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

1. **Classification of brain tumors from MR images using deep transfer learning**

Polat Ö., Güngen C.

Journal Of Supercomputing, vol.77, no.7, pp.7236-7252, 2021 (Journal Indexed in SCI)

- II. **Determination of Pneumonia in X-ray Chest Images by Using Convolutional Neural Network**
Polat Ö., Ölmez Z., Ölmez T.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.29, pp.1615-1627, 2021 (Journal Indexed in SCI Expanded)
- III. **Automatic classification of volcanic rocks from thin section images using transfer learning networks**
POLAT Ö., Polat A., EKİCİ T.
NEURAL COMPUTING & APPLICATIONS, 2021 (Journal Indexed in SCI)
- IV. **Protein fold classification with Grow-and-Learn network**
Polat Ö., Dokur Z.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.2, pp.1184-1196, 2017 (Journal Indexed in SCI)
- V. **Protein Fold Recognition Using Self-Organizing Map Neural Network**
POLAT Ö., Dokur Z.
CURRENT BIOINFORMATICS, vol.11, no.4, pp.451-458, 2016 (Journal Indexed in SCI)
- VI. **Motifs and structural blocks retrieval by GHT**
Cantoni V., Ferone A., Petrosino A., POLAT Ö.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.129, no.6, 2014 (Journal Indexed in SCI)
- VII. **Protein motifs retrieval by SS terns occurrences**
Cantoni V., Ferone A., Özbudak Ö., Petrosino A.
PATTERN RECOGNITION LETTERS, vol.34, no.5, pp.559-563, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Detection of Covid-19 from Chest CT Images Using Xception Architecture: A Deep Transfer Learning Based Approach**
Polat Ö.
Sakarya University Journal of Science, vol.25, no.3, pp.813-823, 2021 (Refereed Journals of Other Institutions)
- II. **Determination of highly effective attributes in fold level classification of proteins**
POLAT Ö.
International Advanced Researches and Engineering Journal, vol.3, no.1, pp.32-39, 2019 (Refereed Journals of Other Institutions)
- III. **Hough Dönüşümü Kullanılarak Protein Yapısal Bloklarının Karşılaştırılması**
ÖZBUDAK Ö., DOKUR Z., CANTONI V.
EMO Bilimsel Dergi, vol.3, no.6, pp.91-97, 2014 (Other Refereed National Journals)

Books & Book Chapters

- I. **Searching Structural Blocks by SS Exhaustive Matching**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
in: Lecture Notes in Bioinformatics, LEIF PETERSON, GIUSEPPE RUSSO, FRANCESCO MASULLI, Editor, ©Springer-Verlag Berlin Heidelberg, pp.57-69, 2013
- II. **Comparison of GHT-Based Approaches to Structural Motif Retrieval**
FERONE A., ÖZBUDAK Ö.
in: Lecture Notes in Computer Science, A. PETROSINO, L. MADDALENA, P. PALA, Editor, ©Springer-Verlag Berlin Heidelberg, pp.356-362, 2013
- III. **Protein Structural Blocks Representation and Search through Unsupervised NN**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
in: Lecture Notes in Computer Science, A.E.P. VILLA et al., Editor, ©Springer-Verlag Berlin Heidelberg, pp.515-522, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Classification of Brain Tumors using Convolutional Neural Network from MR Images Evrimsel Sinir Agi Kullanılarak MR Goruntulerinden Beyin Tumorlerinin Siniflandirilmesi**
Gungen C., POLAT Ö., KARAKIŞ R.
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020
- II. **GAL A ̇ğı ile Cinsiyet Sınıflama**
POLAT Ö.
27. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, SIU 2019, Turkey, 24 - 26 April 2019
- III. **Determination of Highly Effective Attributes in Fold Level Classification of Proteins**
POLAT Ö.
International Advanced Researches and Engineering Congress, 16 - 18 November 2017
- IV. **Protein Fold Classification using Kohonen s Self Organizing Map**
ÖZBUDAK Ö., DOKUR Z.
2nd International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2014, 7 - 09 April 2014
- V. **Comparison of GHT based Approaches to Structural Motif Retrieval**
FERONE A., ÖZBUDAK Ö.
ICIAP 2013 Workshops, 9 - 13 September 2013
- VI. **Search of Protein Structural Blocks through Secondary Structure Triplets**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
3rd International Conference Image Processing Theory, Tools and Applications, IPTA'12, 15 - 18 October 2012
- VII. **Hough Dönüşümü Kullanılarak Protein Yapısal Bloklarının Karşılaştırılması**
ÖZBUDAK Ö., DOKUR Z., CANTONI V.
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, ELECO 2012, Turkey, 29 November - 01 December 2012
- VIII. **Motif Retrieval by Exhaustive Matching and Couple Co occurrences**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
9th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB'12, 12 - 14 July 2012
- IX. **Structural Biology and Pattern Recognition**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
Convegno GIRPR'12, 21 - 23 May 2012
- X. **Protein Structural Motifs Search in Protein Data Bank**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
International Conference on Computer Systems and Technologies, CompSysTech'12, 22 - 23 June 2012
- XI. **Structural Motif Representation and search through Unsupervised NN**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
22nd International Conference on Artificial Neural Networks, ICANN'12, 11 - 14 September 2012
- XII. **Structural Analysis of Protein Secondary Structure by GHT**
CANTONI V., FERONE A., ÖZBUDAK Ö., PETROSINO A.
21st International Conference on Pattern Recognition, ICPR'12, 11 - 15 November 2012
- XIII. **Effects of the Facial and Racial Features on Gender Classification**
ÖZBUDAK Ö., KIRCI M., ÇAKIR Y., GUNES E. O.
IEEE MELECON 2010, 26 - 28 April 2010
- XIV. **Fast Gender Classification**
ÖZBUDAK Ö., TÜKEL M., ŞEKER S.
IEEE International Conference on Computational Intelligence and Computing Research, ICCIC'10, 28 - 29 December 2010
- XV. **On Ear Biometrics**

KOCAMAN B., KIRCI M., GÜNEŞ E. O. , ÇAKIR Y., ÖZBUDAK Ö.
IEEE EUROCON'09, 18 - 23 May 2009

Scientific Refereeing

Sigma Journal of Engineering & Natural sciences, Journal Indexed in ESCI, September 2020

JOURNAL OF SUPERCOMPUTING, SCI Journal, September 2020

BRIEFINGS IN BIOINFORMATICS, SCI Journal, February 2020

BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, January 2020

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, January 2020

SIU 2019 - 27. IEEE SİNYAL İŞLEME VE İLETİŞİM UYGULAMALARI KURULTAYI, Conference Paper (Full Text), February 2019

NEURAL PROCESSING LETTERS, SCI Journal, January 2019

Citations

Total Citations (WOS):27

h-index (WOS):4