

## ÖZGEÇMİŞ

1. **Adı Soyadı:** Cemal Okan ŞAKAR

**İletişim Bilgileri**  
**Adres** : Bahçeşehir Üniversitesi Mühendislik Fakültesi Çırağan Cd. Osmanpaşa  
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2. **Doğum Tarihi:** 03/12/1984

3. **Ünvanı:** Yard. Doç. Dr.

4. **Öğrenim Durumu:** Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Matematik Mühendisliği	Yıldız Teknik Üniversitesi	2002-2006
Y. Lisans	Bilgisayar Mühendisliği	Bahçeşehir Üniversitesi	2006-2008
Doktora	Bilgisayar Mühendisliği	Boğaziçi Üniversitesi	2008-2014

5. **Akademik Unvanlar:**

**Araştırma Görevlisi:** Bahçeşehir Üniversitesi, Bilgisayar Mühendisliği - 2006-2011

**Öğretim Görevlisi:** Bahçeşehir Üniversitesi, Bilgisayar Mühendisliği - 2011-2014

**Yard. Doç. Dr.:** Bahçeşehir Üniversitesi, Bilgisayar Mühendisliği - 2014-....

6. **Yönetilen Yüksek Lisans ve Doktora Tezleri**

6.1. **Yüksek Lisans Tezleri**

Mert Çalışan, Multi-View Short-Text Classification Using Knowledge Bases, Bahçeşehir Üniversitesi, 2016.

6.2. **Doktora Tezleri**

7. **Yayınlar**

7.1. **Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)**

**Sakar, C.O.,** Kursun, O. "Discriminative Feature Extraction by a Neural Implementation of Canonical Correlation Analysis", IEEE Transactions on Neural Networks and Learning Systems (IEEE TNNLS), DOI: 10.1109/TNNLS.2015.2504724, 2016.

Cevik, N., **Sakar, C.O.,** Kursun, O. "Analysis of shared miRNAs of different species using ensemble CCA and genetic distance", Computers in Biology and Medicine, vol. 64, pp. 261–267, 2015.

**Sakar, C.O.,** Kursun, O., Seker, H., Gurgun, F., Aydin, N., Favorov, O., "Combining Multiple Views: Case Studies on Protein and Arrhythmia Features", Engineering Applications of Artificial Intelligence, vol. 28, pp. 174–180, 2014.

**Sakar, C.O.,** Kursun, O., Seker, H., Gurgun, F., "Combining Multiple Clusterings for Protein Structure Prediction", International Journal of Data Mining and Bioinformatics, vol. 10(2), pp. 162-174, 2014.

**Sakar, C.O.**, Kursun, O., Gurgun, F., "Ensemble Canonical Correlation Analysis", Applied Intelligence, vol. 40(2), pp. 291-304, 2014.

Erdogdu Sakar, B., Isenkul, M., **Sakar, C.O.**, Sertbas, A., Gurgun, F., Delil, S., Apaydin, H., Kursun, O., "Collection and Analysis of a Parkinson Speech Dataset with Multiple Types of Sound Recordings", IEEE Journal of Biomedical and Health Informatics, vol. 17(4), pp. 828-834, 2013.

Serbes, G., **Sakar, C.O.**, Kahya, Y., Aydin, N., "Pulmonary crackle detection using time–frequency and time–scale analysis", Digital Signal Processing, vol. 23(3), pp. 1012-1021, 2013.

**Sakar, C.O.**, Kursun, O., Gurgun F., "A Feature Selection Method Based on Kernel Canonical Correlation Analysis and the Minimum Redundancy Maximum Relevance Filter Method", Expert Sytems with Applications, vol. 39(3), pp. 3333-3344, 2012.

**Sakar, C.O.**, Kursun, O., "A Method for Combining Mutual Information and Canonical Correlation Analysis: Predictive Mutual Information and Its Use in Feature Selection", Expert Sytems with Applications, vol. 39(3), pp. 3432-3437, 2012.

**Sakar, C.O.**, Demir, G., Kursun O., OZDEMIR, H., Altay, G., Yalcin, S., "Feature Selection for the Prediction of Tropospheric Ozone Concentration Using a Wrapper Method", Intelligent Automation and Soft Computing, vol. 17(4), pp. 403-413, 2011.

Kursun, O., **Sakar, C.O.**, Favorov, O., Aydin, N., Gurgun F., "Using Covariates for Improving the Minimum Redundancy Maximum Relevance Feature Selection Method", Turkish Journal of Electrical Engineering & Computer Sciences, vol. 18, pp. 989-1002, 2010.

**Sakar, C.O.**, Kursun, O., Ozdemir, H., Demir, G., Yalcin, "Identifying Effective Variables Using Mutual Information and Building Predictive Models of Sulfur Dioxide Concentration with Support Vector Machines", Ekoloji, vol. 19(76), pp. 102-112, 2010.

**Sakar, C.O.**, Kursun, O., "Telediagnosis of Parkinson's Disease Using Measurements of Dysphonia", Journal of Medical Systems, vol. 34(4), pp. 591-599, 2010.

Demir, G., Altay, G., **Sakar, C.O.**, Albayrak, S., Ozdemir H., Yalcin, S., "Prediction and Evaluation of Tropospheric Ozone Concentration in Istanbul Using Artificial Neural Network Modeling According to Time Parameter", Journal of Scientific and Industrial Research, vol. 67(9), pp. 674-679, 2008.

## **7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler**

### **7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler**

Sakar, B.E., **Sakar, C.O.**, Serbes, G., Kursun, O. "Determination of the optimal threshold value that can be discriminated by dysphonia measurements for unified Parkinson's Disease rating scale", IEEE International Conference on Bioinformatics & Bioengineering (BIBE 2015), Belgrade, Serbia, pp. 1-4, November 2-4, 2015.

Gumus, F., **Sakar, C.O.**, Erdem, Z., Kursun, O. "Online Naive Bayes classification for network intrusion detection", ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Beijing, China, pp. 670-673, August 17-20, 2014.

**Sakar, C.O.**, Kursun, O., Gurgen, F., "Feature Extraction based on Alternating Regression", XIII. Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON 2013), Sevilla, Spain, September 25-28, 2013.

Cevik, N., **Sakar, C.O.**, Kursun, O., "Analysis of Relations Between Shared miRNAs of Different Species Using Canonical Correlation Analysis", International Conference on Applied Informatics and Health and Life Sciences, Istanbul, Turkey, September 09-11, 2013.

Kursun, O., Sakar, B.E., Isenkul, M.E, **Sakar, C.O.**, Gurgen, F., Delil, S., Apaydin, H., Tommerdahl, M., Favorov, O.V. "Analysis of Effects of Parkinson's Disease on the Somatosensory System via CM-4 Tactile Stimulator", International Conference on Applied Informatics and Health and Life Sciences, Istanbul, Turkey, September 09-11, 2013.

Ozkan, E., Ozdemir, H., **Sakar, C.O.**, Demir, G., Unal, A., Kindap, T. "Online Detection and Analysis System for Air Pollution Hot Spots in Turkey", 2nd International Conference on Biotechnology and Environment Management, IPCBEE vol.42, IACSIT Press, Singapore, 2012.

Serbes, G., **Sakar, C.O.**, Kahya, Y., Aydin, N., "Feature Extraction using Time-Frequency/Scale Analysis and Ensemble of Feature Sets for Crackle Detection", 33<sup>rd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC '11), Boston, USA, 2011.

**Sakar, C.O.**, Kursun, O., "A Hybrid Method for Feature Selection Based on Mutual Information and Canonical Correlation Analysis", 20<sup>th</sup> International Conference on Pattern Recognition, pp. 4360-4363, Istanbul, Turkey, 2010.

**Sakar, C.O.**, Kursun, O., Seker, H., Gurgen, F., "Prediction of Protein Sub-nuclear Location by Clustering mRMR Ensemble Feature Selection", 20<sup>th</sup> International Conference on Pattern Recognition, pp. 2572-2575, Istanbul, Turkey, 2010.

**Sakar, C.O.**, Kursun, O., Seker, H., Gurgen, F., Aydin, N., Favorov, O. "Parallel Interacting MultiView Learning: An Application to Prediction of Protein Sub-Nuclear Location", 9<sup>th</sup> International Conference on Information Technology and Applications in Biomedicine, ITAB 2009, pp. 587-590, Larnaca, Cyprus, 2009.

#### **7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler**

Serbes, G., **Sakar, C.O.**, Kahya, Y., Aydin, N., "Effect of Different Window and Wavelet Types on the Performance of a Novel Crackle Detection Algorithm", Convergence and Hybrid Information Technology, Lecture Notes in Computer Science, vol. 6935, 2011, pp 575-581.

#### **7.5. Ulusal hakemli dergilerde yayımlanan makaleler**

#### **7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

**Sakar C.O.**, Kursun O., Karaali, A., Eroglu Erdem, C., "Feature Extraction for Facial Expression Recognition by Canonical Correlation Analysis", IEEE 20th Signal Processing and Applications Conference (SIU), Muğla, Turkey, April 2012.

Sakar, B.E., **Sakar, C.O.**, Gurgen, F., Sertbas, A., Kursun, O. "A Validation Method for Comparing Classifiers on Imbalanced Datasets", IEEE 20th Signal Processing and Applications Conference (SIU), Muğla, Turkey, April 2012.

Serbes, G., **Sakar, C.O.**, Kahya, Y., Aydin, N., " Pulmonary crackle detection using time-frequency analysis", 20. ", IEEE 20th Signal Processing and Applications Conference (SIU), Muğla, Turkey, April 2012.

Icenkul, M.E., Erdođdu, B., **Sakar, C.O.**, Gümüs, E., Delil, M.S., Gürgen, F., Sertbas, A., Kursun, O., Building a Speech Database and Using Speech Patterns for Diagnosis of Parkinson's Disease from Voice Dysphonias, 16. Biyomedikal Mühendisliđi Ulusal Toplantısı (BİYOMUT 2011), Antalya, Turkey, October, 2011.

### 7.7. Diđer yayınlar

### 8. Projeler

Combining the Cortical Motor and Sensory System Measurements in the Parkinson's Disease Examinations with Machine Learning Methods, TUBITAK 3501 projesi, Proje Yürütücüsü, Mart 2016- Mart 2018.

Multi-view Feature Extraction, Classification and Analysis Tools for Quantitative Neuropathic Tests, TUBITAK 1001 projesi, Arařtırmacı, Ekim 2014-Nisan 2016.

Multi-view Learning Methods based on Sensory and Motor System Data for Diagnosis of Parkinson's Disease, Bođaziçi University Scientific Research Fund (BU/BAP), Researcher, July 2011 - September 2012 (In coordination with Cerrahpařa Medical Faculty, Department of Neurology)

### 9. İdari Görevler

### 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

### 11. Ödüller

TÜBİTAK 2211-National Scholarship Programme for PhD Students, 2008-2014

### 12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2014-2015	Güz	CMP1001 Intro. to Programming (C++)	2	2	180
		CMP4999 Capstone Project	0	6	10
		CMP5130-Machine Learning and Pattern Recognition	3	0	13
	İlkbahar	CMP1001 Intro. to Programming (C++)	2	2	50
		CMP1002 Object Oriented Programming	2	2	180
		CMP5133 - Artificial Neural Networks	3	0	16
		CMP4999 Capstone Project	0	6	10
2015-2016	Güz	CMP1001 Intro. to Programming (C++)	2	2	180
		CMP4999 Capstone Project	0	6	8
		CMP5130-Machine Learning and Pattern Recognition	3	0	19
	İlkbahar	CMP1002 Object Oriented Programming	2	2	218
		CMP5133 - Artificial Neural Networks	3	0	36
		CMP4999 Capstone Project	0	6	16

**Not:** Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.