

## ÖZGEÇMİŞ

1. **Adı Soyadı** : Berk GÖKBERK
2. **Doğum Tarihi** : 08.03.1977
3. **Unvanı** : Bilgisayar Mühendisi
4. **Öğrenim Durumu** : Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Bilgisayar Müh.	Boğaziçi Üniversitesi	1999
Y. Lisans	Bilgisayar Müh.	Boğaziçi Üniversitesi	2001
Doktora	Bilgisayar Müh.	Boğaziçi Üniversitesi	2007

### 5. Akademik Unvanlar

- Yardımcı Doçentlik Tarihi : 03 Mart 2014  
Doçentlik Tarihi : -  
Profesörlük Tarihi : -

### 6. Yönetilen Yüksek Lisans ve Doktora Tezleri

#### 6.1. Yüksek Lisans Tezleri

- Öğrenci: Yuxi Peng  
Tez Konusu: Comparative Analysis of Super Resolution Techniques for Face Recognition  
Diğer Danışmanlar: Prof. Raymond Veldhuis  
Tarih: 2011-2012  
Kurum: University of Twente
- Öğrenci: Hamdi Dibekliolu  
Tez Konusu: Part-Based 3D Face Recognition Under Pose and Occlusion Variations  
Diğer Danışmanlar: Prof. Lale Akarun  
Tarih: 2007-2008  
Kurum: Boğaziçi University

#### 6.2. Doktora Tezleri

- Öğrenci: Yuxi Peng  
Tez Konusu: Face Recognition at a Distance  
Diğer Danışmanlar: Prof. Raymond Veldhuis  
Tarih: 2012-2013 (devam etmekte)  
Kurum: University of Twente
- Öğrenci: Neşe Alyüz  
Tez Konusu: Occlusion Robust 3D Face Recognition  
Diğer Danışmanlar: Prof. Lale Akarun  
Tarih: 2009-2013  
Kurum: Boğaziçi University

### 7. Yayınlar

### **7.1. Uluslararası hakemli dergilerde yayınlanan makaleler**

- 3D Face Recognition under Occlusion using Masked Projection, Nese Alyuz, Berk Gokberk, Lale Akarun, IEEE Transactions on Information Forensics and Security, 2013, Vol.8, No.5, pp. 789-802
- Regional Registration for Expression Resistant 3-D Face Recognition, Nese Alyuz, Berk Gokberk, Lale Akarun, IEEE Transactions on Information Forensics and Security, 2010, Vol. 5, No. 3, pp. 425-440
- Fingerprint Verification Using Spectral Minutiae Representations, Haiyun Xu, Veldhuis, R.N.J., Bazen, A.M., Kevenaar, T.A.M., Akkermans, T.A.H.M., Gokberk, B., IEEE Transactions on Information Forensics and Security, 2009, Vol. 4, No. 3, pp. 397-409
- Representation Plurality and Fusion for 3D Face Recognition, Berk Gökberk, Helin Dutagaci, Aydin Ulas, Lale Akarun, Bülent Sankur, IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics, 2008, Vol. 38, No. 1, pp. 155-173
- Learning the Best Subset of Local Features for Face Recognition, Berk Gökberk, M. Okan Irfanoglu, Lale Akarun, Ethem Alpaydin, Pattern Recognition, 2007, Vol. 40, No. 5, pp. 1520-1532
- 3D Shape-based Face Representation and Feature Extraction for Face Recognition, Berk Gökberk, M. Okan Irfanoglu, Lale Akarun, Image and Vision Computing, 2006, Vol. 24, No. 8, pp. 857-869
- Selection of Kernel Location, Frequency, and Orientation Parameters of 2-D Gabor Wavelets for Face Recognition, Berk Gökberk, Lale Akarun, Ethem Alpaydin, Perception (ECVP Abstract Supplement), 2003, Vol. 32, pp.1-1

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

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

- Comparison of super-resolution benefits for down-sampled images and real low-resolution data, Y. Peng, L. Spreewers, B. Gökberk, and R. Veldhuis, In: 34rd Symposium on Information Theory in the Benelux and the 3rd Joint WIC/IEEE Symposium on Information Theory and Signal Processing in the Benelux, 30-31 May 2013, Leuven, Belgium.
- Robust 3D Face Recognition in the Presence of Realistic Occlusions, Nese Alyüz, Berk Gokberk, Luuk Spreewers, Raymond Veldhuis, Lale Akarun, 5th IAPR International Conference on Biometrics, ICB 2012, pp. 111-118, India
- Adaptive Registration for Occlusion Robust 3D Face Recognition, Nese Alyuz, Berk Gokberk, Lale Akarun, Lecture Notes in Computer Science (Second IEEE International Workshop on Benchmarking Facial Image Analysis Technologies, BeFIT 2012), 2012, Vol. 7585, Part. 3, pp. 557-566, Italy

- An Evaluation of Super-Resolution for Face Recognition, Yuxi Peng, Berk Gokberk, Luuk Spreeuwiers, Raymond Veldhuis, 33rd WIC Symposium on Information Theory in the Benelux, 2012, pp. 36-43, The Netherlands
- Nasal Region-based 3D Face Recognition Under Pose and Expression Variations, Hamdi Dibeklioglu, Berk Gokberk, Lale Akarun, Lecture Notes in Computer Science (The 3rd IAPR/IEEE International Conference on Biometrics, ICB 2009), 2009, Vol. 5558, pp. 309-318, Italy
- Fusion of Likelihood Ratio Classifier with ICP-based Matcher for 3D Face Recognition, Berk Gokberk, Luuk J. Spreeuwiers, Raymond Veldhuis, Proceedings – 2009 30th WIC Symposium on Information Theory in the Benelux, 2009, pp. 33-39, The Netherlands
- A 3D Face Recognition System for Expression and Occlusion Invariance, Nese Alyuz, Berk Gokberk, Lale Akarun, IEEE 2nd International Conference on Biometrics Theory, Applications and Systems, BTAS 2008, 2008, pp.1-7, USA
- Component-based Registration with Curvature Descriptors for Expression Insensitive 3D Face Recognition, Nese Alyuz, Berk Gokberk, Hamdi Dibeklioglu, Lale Akarun, IEEE 8th International Conference on Automatic Face and Gesture Recognition, FG 2008, 2008, pp.1-6, The Netherlands
- 3D Face Recognition Benchmarks on the Bosphorus Database with Focus on Facial Expressions, Nese Alyuz, Berk Gokberk, Hamdi Dibeklioglu, Arman Savran, Albert Ali Salah, Lale Akarun, Bulent Sankur, Lecture Notes in Computer Science (The 1st COST 2101 Workshop on Biometrics and Identity Management, BIOID 2008), 2008, Vol. 5372, pp. 57-66, Denmark
- Bosphorus Database for 3D Face Analysis, Arman Savran, Nese Alyuz, Hamdi Dibeklioglu, Oya Celiktutan, Berk Gokberk, Bulent Sankur, Lale Akarun, Lecture Notes in Computer Science (The 1st COST 2101 Workshop on Biometrics and Identity Management, BIOID 2008), 2008, Vol. 5372, pp. 47-56, Denmark
- A Study on Region-Based Recognition of 3D Faces with Expression Variations, Helin Dutagaci, Berk Gökberk, Bülent Sankur, Lale Akarun, European Signal Processing Conference, EUSIPCO 2007, 2007, pp. 753-757, Poland
- “3D Face”: Biometric Template Protection for 3D Face Recognition, E.J.C. Kelkboom, B. Gökberk, T.A.M. Kevenaer, A.H.M. Akkermans, and M. van der Veen, Lecture Notes in Computer Science (International Conference on Biometrics, ICB 2007), 2007, Vol. 4642, pp. 566-573, Korea
- Comparative Analysis of Decision-level Fusion Algorithms for 3D Face Recognition, Berk Gökberk, Lale Akarun, 18th International Conference on Pattern Recognition, ICPR 2006, 2006, Vol. 3, pp. 1018-1021, Hong Kong
- 3D Face Recognition for Biometric Applications, Lale Akarun, Berk Gökberk, Albert Ali Salah, Proceedings - 13th European Signal Processing Conference, EUSIPCO 2005, 2005, pp. 2094-2098, Turkey

- Rank-based Decision Fusion for 3D Shape-based Face Recognition, Berk Gökberk, Albert Ali Salah, Lale Akarun, Lecture Notes in Computer Science (5th International Conference on Audio- and Video-Based Biometric Person Authentication, AVBPA 2005), 2005, Vol. 3546, pp. 1019-1028, USA
- Selection of Location, Frequency, and Orientation Parameters of 2D Gabor Wavelets for Face Recognition, Berk Gökberk, M. Okan Irfanoglu, Lale Akarun, Ethem Alpaydin, Lecture Notes in Computer Science (Advanced Studies in Biometrics), 2005, Vol. 3161, pp. 138-146, Italy
- Selection and Extraction of Patch Descriptors for 3D Face Recognition, Berk Gökberk, Lale Akarun, Lecture Notes in Computer Science (20th International Symposium on Computer and Information Sciences – ISCIS 2005), 2005, Vol. 3733, pp. 718-727, Turkey
- 3D Shape-based Face Recognition using Automatically Registered Facial Surfaces, M. Okan Irfanoglu, Berk Gökberk, Lale Akarun, International Conference on Pattern Recognition, ICPR 2004, 2004, Vol. 4, pp.183-186, UK
- How to deceive a face recognizer?, Berk Gökberk, Lale Akarun, Basak Aksan, Proceedings – ICPR Workshop: Biometrics: Challenges arising from Theory to Practice, BCTP 2004, 2004, UK.
- Optimal Gabor Kernel Selection for Face Recognition, Berk Gökberk, M. Okan Irfanoglu, Lale Akarun, Ethem Alpaydin, Proceedings - IEEE International Conference on Image Processing, ICIP 2003, 2003, Vol. 1, pp. 677-680, Spain
- Feature Selection for Pose Invariant Face Recognition, Berk Gökberk, Lale Akarun, Ethem Alpaydin, Proceedings - 16th International Conference on Pattern Recognition, ICPR 2002, 2002, Vol. 16, No. 4, pp. 306-309, Canada
- Gabor Wavelet-based Pose Estimation for Face Recognition, Berk Gökberk, Lale Akarun, Ethem Alpaydin, Proceedings - 16th International Symposium on Computer and Information Sciences, ISCIS 2001, 2001, pp. 275-280, Turkey
- Occlusion-robust 3D face recognition using restoration and local classifiers [Geri çatma ve bölgesel sınıflandırıcılar ile örtmeye dayanıklı 3B yüz tanıma], Nese Alyuz, Berk Gokberk, Luuk Spreeuwes, Raymond Veldhuis, Lale Akarun, Proceedings – 2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, 2011, pp. 750-753, Turkey
- Regional Registration and Curvature Descriptors for Expression Resistant 3D Face Recognition [Ifadeye Dayanıklı 3B Yüz Tanıma için Bölgesel Kayıtlama ve Kivrim Betimleyicileri], Nese Alyüz, Berk Gökberk, Lale Akarun, Proceedings – 2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, 2009, pp. 544-547, Turkey
- Part-based Registration for Expression Resistant 3D Face Recognition [Ifadeye dayanıklı 3B yüz tanıma için parçaya dayalı kayıtlama], Nese Alyüz, Hamdi Dibeklioglu, Berk Gökberk, Lale Akarun, Proceedings – 2008 IEEE 16th Signal Processing and

Communications Applications Conference (Special Session: Face Recognition for Biometric Systems), SIU 2008, 2008, Turkey

- Analysis of Representation and Feature Extraction Schemes for 3D Face Recognition [3B Yüz Tanıma İçin Betimleme ve Öznelik Çıkarım Yöntemlerinin İncelenmesi], Berk Gökberk, Helin Dutagaci, Lale Akarun, Bülent Sankur, Proceedings – 2007 IEEE 15th Signal Processing and Communications Applications Conference, SIU 2007, 2007, pp. 1-4, Turkey
- 3D Face Recognition [Üç Boyutlu Yüz Tanıma], Albert Ali Salah, Berk Gökberk, Lale Akarun, Proceedings - Fifth GAP Engineering Congress, 2006, Turkey
- Rank-based decision fusion for 3D shape-based face recognition [Üç Boyutlu Sekil Bilgisiyle Yüz Tanıma Sıralamaya Dayalı Karar Birleştirimi], Berk Gökberk, Albert Ali Salah, Lale Akarun, Proceedings – 2005 IEEE 13th Signal Processing and Communications Applications Conference, SIU 2005, 2005, pp. 364 – 367, Turkey
- 3D shape-based face recognition using registered surface similarity [Çakıştırılmış Yüzey Benzerliğine Dayalı 3B Sekil Tabanlı Yüz Tanıma], M. Okan Irfanoğlu, Berk Gökberk, Lale Akarun, Proceedings - 2004 IEEE 12th Signal Processing and Communications Applications Conference, SIU 2004, 2004, pp. 571574, Turkey
- Yüz tanıma için eniyi Gabor parametrelerinin Seçimi, Berk Gökberk, M. Okan Irfanoğlu, Hasan Dogu, Lale Akarun, Ethem Alpaydin, Proceedings – 11th Signal Processing and Communications Applications Conference, SIU 2003, 2003, Turkey

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

- Robust 3D Face Recognition in the Presence of Realistic Occlusions, Neşe Alyüz, Berk Gökberk, and Lale Akarun, in Face recognition in adverse conditions, Editors: Maria De Marsico, Michele Nappi, Massimo Tistarelli (in publication)
- 3D Face Recognition: Technology and Applications, in Handbook of Remote Biometrics for Surveillance and Security, Berk Gökberk, Albert Ali Salah, Neşe Alyüz and Lale Akarun, Editors: Massimo Tistarelli, Stan Z. Li, Rama Chellappa, 2009, pp. 217-246, Springer London, ISBN: 978-1-84882-384- 6
- 3D Face Recognition, in Guide to Biometric Reference Systems and Performance Evaluation, Berk Gökberk, Albert Ali Salah, Lale Akarun, Remy Etheve, Daniel Riccio, and Jean-Luc Dugelay, Editors: Dijana Petrovska- Delacretaz, Gerard Chollet, Bernadette Dorizzi, 2009, pp. 263-295, Springer London, ISBN: 978-1-84800-291-3

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

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

#### **7.7. Diğer yayınlar**

**Patent:** Robust Biometric Feature Extraction with and without Reference Point

A. Akkermans, S. Boughorbel, D. J. Breebaart, A. Bruekers, Berk Gokberk, K. De Groot, E. Kelkboom, T. Kevenaar, A. Lemma, Publication date: 2012/4/12, Patent office: US, Patent number: 20120087550, #Application: 13/378208

## 8. Projeler

- MAV: Multimodal Anthropometry from Video  
University of Twente, Netherlands Forensics Institute
- NOQ: International Facial Recognition Evaluation Project for Netherlands Border Control  
University of Twente, Schiphol Airport
- TURBINE: Trusted Revocable Biometric Identities  
University of Twente. European Community Seventh Framework Programme (FP7).  
Grant agreement ICT-2007-216339
- 3DFACE: Three Dimensional Face Recognition  
Boğaziçi University, European Community Sixth Framework Programme (FP6) for  
Research and Technological Development
- BIOSECURE - Biosecure Network of Excellence  
Boğaziçi University, European Community Sixth Framework Programme (FP6) for  
Research and Technological Development
- Perceptual Human Computer Interaction  
Boğaziçi University, T.R. Prime Ministry State Planning Organization (DPT), Project  
Code: 03K120250
- 3D Object Recognition  
Boğaziçi University, The Scientific and Technological Research Council of Turkey  
(TUBITAK), Project Code: 104E080

## 9. İdari Görevler

- University of Twente. Faculty of Electrical Engineering, Mathematics and Computer Science, Doktora Sonrası Araştırmacı (2008-2013)
- Boğaziçi Üniversitesi, Bilgisayar Mühendisliği Bölümü, Araştırma Görevlisi (1999-2006)

## 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

IEEE Member

## 11. Ödüller

- Best Paper Award: BeFIT 2012  
Adaptive Registration for Occlusion Robust 3D Face Recognition, Nese Alyuz, Berk Gokberk, Lale Akarun, Lecture Notes in Computer Science (ECCV Workshops - Second IEEE Int. Workshop on Benchmarking Facial Image Analysis Technologies, BeFIT), 2012, Vol. 7585, Part. 3, pp. 557-566, Italy
- Best Student Paper Award: IEEE SIU 2007  
Analysis of Representation and Feature Extraction Schemes for 3D Face Recognition, Berk Gökberk, Helin Dutagaci, Lale Akarun, Bülent Sankur, IEEE 15th Signal Processing and Communications Applications, SIU 2007, June 11-13, 2007, Pages: 1-4, DOI: 10.1109/SIU.2007.4298757, Eskisehir, Turkey
- Best Student Paper Award: ICPR 2006  
Comparative Analysis of Decision-level Fusion Algorithms for 3D Face Recognition, Berk Gökberk, Lale Akarun, 18th International Conference on Pattern Recognition, ICPR 2006, 20-24 August 2006, Hong Kong. Track: Systems, Robotics, and Applications
- Best Ph.D. Thesis Award: Boğaziçi University 2006  
Thesis title: Three-dimensional Face Recognition, Boğaziçi University, 2006.
- Best Paper Award: Summer School on Biometrics 2005  
Selection of Location, Frequency, and Orientation Parameters of 2D Gabor Wavelets for Face Recognition, Berk Gökberk, M. Okan Irfanoglu, Lale Akarun, E. Alpaydin, Advanced Studies in Biometrics, Summer School on Biometrics, Alghero, Italy, June 2-6, 2003, Revised Selected Lectures and Papers. Lecture Notes in Computer Science, Massimo Tistarelli, Josef Bigün, Enrico Grosso (Eds.), Vol.3161 Springer 2005, ISBN 3-540-26204-0 , p. 138-146, 2005.
- Second Best Student Paper Award: IEEE SIU 2004  
Çakıstirilmiş Yüzey Benzerliğine Dayalı 3B Sekil Tabanlı Yüz Tanıma, M. O. Irfanoglu, B. Gökberk, L. Akarun, Proceedings of the IEEE 12th Signal Processing and Communications Applications Conference (SIU), Çesme, Turkey, April 2004 , pp.571-574.

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	
2012-2013	Güz	Introduction to Biometrics – University of Twente	3		40
	İlkbahar	Advanced Computer Vision and Pattern Recognition – University of Twente	3		10
2014	Güz	Introduction to Biometrics – Boğaziçi University	3		12
	İlkbahar				