

ÖZGEÇMİŞ



1. **Adı Soyadı** : Mehmet Devrim Akca
2. **Doğum Tarihi** : 27.05.1975
3. **Ünvanı** : Doç. Dr.
4. **Öğrenim Durumu** : Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Jeodezi ve Fotogrametri Müh.	Karadeniz Teknik Üniversitesi	1997
Y. Lisans	Jeodezi ve Fotogrametri Müh.	Karadeniz Teknik Üniversitesi	2000
Doktora	Fotogrametri	ETH Zurich (İsviçre)	2007

5. Akademik Ünvanlar

Ünvan	Ana Bilim Dalı	Üniversite	Başl. Ve Mez. Yıl
Yardımcı Doçent	Enformasyon Teknolojileri	Işık Üniversitesi	15 Eylül 2009
Yardımcı Doçent	İnşaat Mühendisliği Böl.	Işık Üniversitesi	15 Eylül 2011
Doçent	İnşaat Mühendisliği Böl.	Işık Üniversitesi	15 Mart 2014

5.1 İş Deneyimleri

Akademik

- Öğretim Üyesi, Doç. Dr.,
03.2014 –
[İnşaat Mühendisliği Bölümü](#), Mühendislik Fakültesi, Işık Üniversitesi, İstanbul.
- Öğretim Üyesi, Yard. Doç. Dr.,
09.2011 – 03.2014
[İnşaat Mühendisliği Bölümü](#), Mühendislik Fakültesi, Işık Üniversitesi, İstanbul.
- Öğretim Üyesi, Yard. Doç. Dr.,
09.2009 – 09.2011
[Enformasyon Teknolojileri Bölümü](#), Fen Edebiyat Fakültesi, Işık Üniversitesi, İstanbul.
- Senyör Öğretim Görevlisi,
05.2007 – 08.2009
Fotogrametri ve Uzaktan Algılama Kürsüsü, Geodezi ve Fotogrametri Enstitüsü, Federal Teknoloji Enstitüsü, Zürih, İsviçre.
[Chair of Photogrammetry and Remote Sensing \(PF\)](#), Institute of Geodesy and Photogrammetry (IGP), Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.
- Araştırma Görevlisi,
01.2003 – 05.2007
Fotogrametri ve Uzaktan Algılama Kürsüsü, Geodezi ve Fotogrametri Enstitüsü, Federal Teknoloji Enstitüsü, Zürih, İsviçre.

[Chair of Photogrammetry and Remote Sensing \(PF\)](#), Institute of Geodesy and Photogrammetry (IGP), Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.

- Akademik Misafir,
05.2002 – 01.2003
Fotogrametri ve Uzaktan Algılama Kürsüsü, Geodezi ve Fotogrametri Enstitüsü, Federal Teknoloji Enstitüsü, Zürih, İsviçre.
[Chair of Photogrammetry and Remote Sensing \(PF\)](#), Institute of Geodesy and Photogrammetry (IGP), Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.
- Araştırma Görevlisi,
12.2001 – 05.2002
Fotogrametri Ana Bilim Dalı, [Geomatik Mühendisliği Bölümü](#), İnşaat Fakültesi, İstanbul Teknik Üniversitesi, İstanbul.
- Araştırma Görevlisi,
05.2000 – 12.2001
[Jeodezi ve Fotogrametri Mühendisliği Bölümü](#), Mühendislik Fakültesi, Ondokuz Mayıs Üniversitesi, Samsun.

Endüstri & Kamu Sektörü

-
- Harita Mühendisi,
12.1997 – 05.2000
Maçka (Trabzon) Kadastro Müdürlüğü, Tapu ve Kadastro Genel Müdürlüğü (TKGM).
- Kadastro Teknisyeni,
07.1993 – 11.1993
Yenice (Zonguldak) Kadastro Müdürlüğü, Tapu ve Kadastro Genel Müdürlüğü (TKGM).

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1 Yüksek Lisans Tezleri

- 1) An E-learning software for digital monoplottting, M.Sc. thesis by Matthias Flühler, Institute of Geodesy and Photogrammetry, ETH Zurich, 2004.
- 2) 3D object modeling by use of a close range active sensor, B.Sc. thesis by David Novak, Institute of Geodesy and Photogrammetry, ETH Zurich, 2006.
- 3) Untersuchung verschiedener Methoden zur Registrierung von Punktwolken, B.Sc. thesis by Thomas Pfarrwaller, Institute of Geodesy and Photogrammetry, ETH Zurich, 2006.

6.2 Doktora Tezleri

- 1) Total least squares registration of 3D point clouds, Ph.D. thesis by Umut Aydar, Dept. of Geodesy and Photogrammetry, Istanbul Technical University, 2014.
- 2) Real-time photogrammetric monitoring of bridges, Ph.D. thesis by Emin Özgür Avşar, Dept. of Geodesy and Photogrammetry, Istanbul Technical University, 2014.

7. Yayınlar

7.1 Uluslararası hakemli dergilerde yayınlanan makaleler

- 1) Gruen, A., Akca, D., 2005. [Least squares 3D surface and curve matching](#). ISPRS Journal of Photogrammetry and Remote Sensing, 59 (3), 151-174.
- 2) Akca, D., 2007. [Matching of 3D surfaces and their intensities](#). ISPRS Journal of Photogrammetry and Remote Sensing, 62 (2), 112-121.
- 3) Akca, D., Gruen, A., 2009. Radiometric performance analysis of mobile phone cameras. Asian Journal of Geoinformatics, 9 (1), 3-8.
- 4) Akca, D., Gruen, A., 2009. [Comparative geometric and radiometric evaluation of mobile phone and still video cameras](#). The Photogrammetric Record, 24 (127), 217 – 245.
- 5) Akca, D., 2010. [Co-registration of surfaces by 3D Least Squares matching](#). Photogrammetric Engineering and Remote Sensing, 76 (3), 307 – 318.
- 6) Seybold, H.J., Molnar, P., Akca, D., Doumi, M., Cavalcanti Tavares, M., Shinbrot, T., Andrade Jr., J.S., Kinzelbach, W. Herrmann, H.J., 2010. [Topography of inland deltas: Observations, modeling, and experiments](#). Geophysical Research Letters, 37 (8), L08402, 5 pages.
- 7) Akca, D., Freeman, M., Sargent, I., and Gruen, A., 2010. [Quality assessment of 3D building data](#). The Photogrammetric Record, 25(132), 339-355.
- 8) Mano, K., Ishii, K., Hirao, M., Tachibana, K., Yoshimura, M., Akca, D., and Gruen, A., 2012. A Study on Accuracy Investigation of Point Clouds Generated by the Mobile Mapping System (MMS). Journal of the Japan Society of Photogrammetry and Remote Sensing, 51(4), 186-200.
- 9) Akca, D., 2012. [3D modelling of cultural heritage objects with a structured light system](#), Mediterranean Archaeology and Archaeometry, 12(1), 139 – 152.
- 10) Akca, D., 2013. [Photogrammetric monitoring of an artificially-generated shallow landslide](#). The Photogrammetric Record, [28\(142\)](#), 178 – 195.
- 11) Avsar, E.Ö., Altan, M.O., Dogan, Ü.A., Akca, D., 2015. Determining pull-out deformations by means of an online photogrammetry monitoring system. International Journal of Environment and Geoinformatics, 2(1), 54-61.
- 12) Akca, D., Seybold, H.J., 2016. [Monitoring of a laboratory-scale inland-delta formation using a structured-light system](#). The Photogrammetric Record, [31 \(154\)](#), 121-142.
- 13) Askarinejad, A., Akca, D., Springman, M., 2018. [Precursors of instability in a natural slope due to rainfall: a full-scale experiment](#). Landslides, [15 \(9\)](#), 1745-1759.

7.2 Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler

- 1) Akca, D., 2003. Full automatic registration of laser scanner point clouds. In: Gruen, A., Kahmen, H. (Eds.), Optical 3-D Measurement Techniques VI, Zurich, Switzerland, September 22-25, vol. I, pp. 330-337.
- 2) Akca, D., Gruen, A., 2003. Re-sequencing a historical palm leaf manuscript with boundary-based shape descriptors. 19th CIPA International Symposium, Antalya, Turkey, September 30-October 4. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIV, part 5/C15, pp. 55-60.
- 3) Gruen, A., Akca, D., 2004. Least squares 3D surface matching. ISPRS "Panoramic Photogrammetry Workshop", Dresden, Germany, February 19-22. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIV, part 5/W16 (on CD-ROM).

- 4) Akca, D., 2004. A new algorithm for 3D surface matching. 20th ISPRS Congress, Istanbul, Turkey, July 12-23. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXV, part B7, pp. 960-965.
[The ISPRS Award for the Best Papers by Young Authors.](#)
- 5) Akca, D., Gruen, A., 2005. A flexible mathematical model for matching of 3D surfaces and attributes. Videometrics VIII, Proc. of SPIE-IS&T Electronic Imaging, San Jose (California), USA, January 18-20. Proc. of SPIE, vol. 5665, pp.184-195.
- 6) Gruen, A., Akca, D., 2005. Least squares 3D surface matching. ASPRS 2005 Annual Conference, Baltimore (Maryland), USA, March 7-11 (on CD-ROM).
- 7) Akca, D., 2005. Registration of point clouds using range and intensity information. International Workshop on Recording, Modeling and Visualization of Cultural Heritage, Ascona, Switzerland, May 22-27, E. Baltsavias, A. Gruen, L. Van Gool, M. Pateraki (Eds.), Taylor & Francis/Balkema, Leiden, pp. 115-126.
- 8) Fluehler, M., Niederoest, J., Akca, D., 2005. Development of an educational software system for the digital monoplottting. ISPRS Workshop on "Tools and Techniques for E-Learning", Potsdam, Germany, June 1-3. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI, part 6/W30 (on CD-ROM).
- 9) Akca, D., Gruen, A., 2005. Fast correspondence search for 3D surface matching. ISPRS Workshop Laser scanning 2005, Enschede, the Netherlands, September 12-14. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI, part 3/W19, pp. 186-191.
- 10) Akca, D., Gruen, A., 2005. Recent advances in least squares 3D surface matching. In: Gruen, A., Kahmen, H. (Eds.), Optical 3-D Measurement Techniques VII, Vienna, Austria, October 3-5, vol. II, pp. 197-206.
- 11) Akca, D., Gruen, A., Alkis, Z., Demir, N., Breuckmann, B., Erduyan, I., and Nadir, E., 2006. 3D modeling of the Weary Herakles statue. 5th International Symposium Turkish-German Geodetic Days, Berlin, March 28-31, (only on CD-ROM).
- 12) Akca, D., Gruen, A., Alkis, Z., Demir, N., Breuckmann, B., Erduyan, I., and Nadir, E., 2006. 3D modeling of the Weary Herakles statue with a coded structured light system. ISPRS Commission V Symposium, Dresden, September 25-27. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI, part 5, pp. 14-19.
- 13) Zhang, L., Kocaman, S., Akca, D., Kornus, W., and Baltsavias, E., 2006. Test and performance evaluation of DMC images and new methods for their processing. ISPRS Commission I Symposium, Paris, July 3-6, (only on CD-ROM).
- 14) Akca, D., Remondino, F., Novàk, D., Hanusch, T., Schrotter, G., and Gruen, A., 2006. Recording and modeling of cultural heritage objects with coded structured light projection systems. 2nd International Conference on Remote Sensing in Archaeology, Rome, Italy, December 4-7, pp.375-382.
- 15) Akca, D., Remondino, F., Novàk, D., Hanusch, T., Schrotter, G., and Gruen, A., 2007. Performance evaluation of a coded structured light system for cultural heritage applications. Videometrics IX, Proc. of SPIE-IS&T Electronic Imaging, San Jose (California), USA, January 29-30, SPIE vol. 6491, pp. 64910V-1-12.
- 16) Gruen, A., and Akca, D., 2007. Mobile Photogrammetry. Dreiländertagung SGPBF, DGPF und OVG, Muttentz, Switzerland, June 19-21, DGPF Tagungsband 16 / 2007, pp. 441-451.
- 17) Baltsavias, E., Eisenbeiss, H., Akca, D., Waser, L.T., Küchler, M., Ginzler, C. and Thee, P., 2007. Modeling fractional shrub/tree cover and multi-temporal changes using high-resolution

- digital surface models and CIR-aerial images. Dreiländertagung SGPBF, DGPF und OVG, Muttentz, Switzerland, June 19-21, DGPF Tagungsband 16 / 2007, pp. 287-297.
- 18) Akca, D., 2007. Least squares matching of 3D surfaces. 4th Symposium of Turkish Society for Photogrammetry and Remote Sensing, Istanbul, Turkey, June 5-7, (only on CD-ROM).
 - 19) Akca, D., Gruen, A., Breuckmann, B., and Lahanier, C., 2007. High definition 3D-scanning of arts objects and paintings. In: Gruen, A., Kahmen, H. (Eds.), Optical 3-D Measurement Techniques VIII, Zurich, Switzerland, July 9-12, vol. II, pp. 50-58.
 - 20) Baltsavias E., Kocaman S., Akca D., and Wolff K., 2007. Geometric and Radiometric Investigations of Cartosat-1 Data. ISPRS Hannover Workshop 2007, "High Resolution Earth Imaging for Geospatial Information", Hannover, Germany, May 29- June 1, (on CD-ROM).
 - 21) Akca, D., Gruen, A., 2007. Generalized Least Squares multiple 3D surface matching. ISPRS Workshop on Laser Scanning 2007 and SilviLaser 2007, Espoo, Finland, September 12-14. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVI, part 3 / W52, pp. 1-7.
 - 22) Akca, D., Gruen, A., 2007. Simultaneous co-registration and georeferencing of multiple pointclouds. 28th Asian Conference on Remote Sensing (ACRS'07), Kuala Lumpur, Malaysia, November 12-16 (only on CD-ROM).
 - 23) Gruen, A., Akca, D., 2007. Calibration and accuracy testing of mobile phone cameras. 28th Asian Conference on Remote Sensing (ACRS'07), Kuala Lumpur, Malaysia, November 12-16 (only on CD-ROM).
 - 24) Gruen, A., and Akca, D., 2008. Evaluation of metric performance of mobile phone cameras. International Calibration and Orientation Workshop EuroCOW 2008, Castelldefels, Spain, January 30 - February 1 (only on CD-ROM).
 - 25) Akca, D. and Gruen, A., 2008. Co-registration of pointclouds by 3D Least Squares matching. The International LIDAR Mapping Forum, Denver, Colorado, US, February 21-22 (only on CD-ROM).
 - 26) Gruen, A., and Akca, D., 2008. Evaluation of the metric performance of mobile phone cameras. 6th International ARIDA (Association for Real Time Imaging and Dynamic Analysis) Workshop "Innovation in 3D measurement, modeling and visualization", Trento, Italy, February 25-26 (only on CD-ROM).
 - 27) Akca, D., Freeman, M., Gruen, A., and Sargent, I., 2008. Quality assessment of 3D building data by 3D surface matching. 21th ISPRS Congress, Beijing, China, July 3-11. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVII, part B2, pp. 771-777.
 - 28) Gruen, A., and Akca, D., 2008. Metric accuracy testing with mobile phone cameras. 21th ISPRS Congress, Beijing, China, July 3-11. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXVII, part B5, pp. 729-736.
 - 29) Akca, D., and Gruen, A., 2008. Radiometric performance analysis of mobile phone cameras. 29th Asian Conference on Remote Sensing (ACRS'08), Colombo, Sri Lanka, November 10-14 (only on CD-ROM).
 - 30) Akca, D., Gruen, A., Freeman, M., and Sargent, I., 2009. Fast quality control of 3D city models. The International LIDAR Mapping Forum, New Orleans, Louisiana, US, January 26-28 (only on CD-ROM).
 - 31) Askarinejad, A., Springman, S.M., Akca, D., Bleiker, E., and Gruen, A., 2010. Subsurface deformation measurements during a fast shallow landslide triggered by rainfall. EGU General Assembly (EGU 2010), Vienna, Austria, May 2-7, Vol. 12, p. 15104.

- 32) Akca, D., Gruen, A., Askarinejad, A., and Springman, S.M., 2011. Photogrammetric monitoring of an artificially generated landslide. The International Conference on GeoInformation For Disaster Management (Gi4DM'11), Antalya, Turkey, May 3-8 (only on CD-ROM).
- 33) Avsar, E.O., Altan, M.O., Dogan, U.A., Akca, D., 2012. Determining pull-out deformations of bonded metal anchors embedded in concrete by means of photogrammetry. The 22th ISPRS Congress, Melbourne, Australia, August 25 – September 1. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIX, part B5, pp. 5-8.
- 34) Aydar, U., Altan, M.O., Akyilmaz, O., Akca, D., 2012. Co-registration of 3D point clouds bt using an error-in-variables model. The 22th ISPRS Congress, Melbourne, Australia, August 25 – September 1. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIX, part B5, pp. 151-155.
- 35) Akca, D., and Seybold, H., 2012. Laboratory flume experiment with a coded structured light system. The 22th ISPRS Congress, Melbourne, Australia, August 25 – September 1. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIX, part B5, pp. 399-404.
- 36) Mano, K., Ishii, K., Hirao, M., Tachibana, K., Yoshimura, M., Akca, D., and Gruen, A., 2012. Empirical accuracy assessment of MMS laser point clouds. The 22th ISPRS Congress, Melbourne, Australia, August 25 – September 1. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XXXIX, part B5, pp. 495-498.
- 37) Aydar, U., Akca, D., Altan, M.O., and Akyilmaz, O., 2013. Total Least Squares registration of 3D surfaces. ISPRS Workshop Laser Scanning 2013, Antalya, Turkey, November 11-13. The ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. II-5/W2, pp. 25-30.
- 38) Avsar, Ö., Akca, D., and Altan, O., 2014. Photogrammetric Deformation Monitoring of the Second Bosphorus Bridge in Istanbul. ISPRS Technical Commission V Symposium, Riva del Garda, Italy, June 23–25. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XL-5, pp. 71-76.
- 39) Poli, D., Akca, D., Stylianidis, S., and Hofer, M., 2014. Forsat: 3D forest monitoring with optical satellite images. In proceedings of ForestSAT 2014, Riva delGarda, Italy, November 4-7 (only on CD-ROM).
- 40) Akca, D., Stylianidis, E., Smagas, K., Hofer, M., Poli, D., Gruen, A., Martin, V.S., Altan, O., Walli, A., Jimeno, E., and Garcia, A., 2016. Volumetric Forest Change Detection Through VHR Satellite Imagery. The 23th ISPRS Congress, Prague, Czech Republic, July 12-19. Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLI-B8, 1213-1220, doi:10.5194/isprs-archives-XLI-B8-1213-2016.
- 41) Ozendi, M., Akca, D., and Topan, H., 2016. An emprical point error model for TLS derived point clouds. The 23th ISPRS Congress, Prague, Czech Republic, July 12-19. Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLI-B5, 557-563, doi:10.5194/isprs-archives-XLI-B5-557-2016.
- 42) Ozendi, M., Akca, D., and Topan, H., 2017. A generic point error model for TLS derived point clouds. Videometrics, Range Imaging, and Applications XIV, SPIE Optical Metrology, Munich, Germany, June 25-29. Proc. SPIE 10332, 103320J; doi:10.1117/12.2269373.
- 43) Akca, D., Stylianidis, E., Poli, D., Gruen, A., Altan, Hofer, M., O., Smagas, K., Martin, V.S., Walli, A., Jimeno, E., and Garcia, A., 2018. 3-Dimensional pre- and post-fire comparison of forest areas. Volumetric Forest Change Detection Through VHR Satellite Imagery.

GeoInformation for Disaster Management (Gi4DM), 18–21 March 2018, Istanbul, Turkey. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-3/W4, 9-16, doi: 10.5194/isprs-archives-XLII-3-W4-9-2018.

- 44) Ozendi, M., Akca, D., and Topan, H., 2018. Stochastic surface mesh reconstruction. ISPRS TC II Mid-term Symposium “Towards Photogrammetry 2020”, 4–7 June 2018, Riva del Garda, Italy. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-2, 805-812. doi: 10.5194/isprs-archives-XLII-2-805-2018.

7.3 Yazılan uluslararası kitaplar veya kitaplarda bölümler

- 1) Akca, D., 2007. [Least Squares 3D surface matching](#). Ph.D. thesis, Institute of Geodesy and Photogrammetry, ETH Zurich, Switzerland, ISBN 3-906467-63-5, Mitteilungen Nr.92, 78 pages.
[The Silver Medal of ETH Zurich - Distinction of the Doctoral Thesis. Carl Pulfrich Award - 2009](#)
- 2) Akca, D., Gruen, A., 2008. Photogrammetric Documentation of Alois Payer's Art Studio. In: Institut für Denkmalpflege und Bauforschung der ETH Zürich (Ed.), Methoden eines Ad-hoc-Inventars. Das Künstleratelier Payer & Wipplinger in Einsiedeln. ISBN 978-3-7281-3244-4, vdf Hochschulverlag AG an der ETH Zürich, pp. 15-23.

7.4 Ulusal hakemli dergilerde yayımlanan makaleler

- 1) Akça, D., ve Doğan, S., 2002. Sayısal görüntülerde Ana Bileşenler Dönüşümü. Harita Dergisi, sayı 129, sayfa 1-15, (in Turkish).

7.5 Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

- 1) Yomralıoğlu, T., ve Akça, D., 1999. Çevresel Bilgi Sistemleri için model-altlık tasarımı: Trabzon Değirmendere Havzası örneği. Yerel Yönetimlerde Kent Bilgi Sistemi Uygulamaları Sempozyumu, Trabzon, 13-15 Ekim, sayfa 297-306, (in Turkish).
- 2) Akca, D., 2010. 3B Kent modellerinin kalite kontrolü. III. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Gebze, Kocaeli, 11-13 Ekim, sayfa 88-96 (in Turkish).

7.6 Diğer yayınlar

- 1) Akça, D., 2000. Coğrafi Bilgi Sistem ile çevresel verilerin modellenmesi: Trabzon Değirmendere Vadisi örneği. Yüksek Lisans Tezi, Kardeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Trabzon, sayfa 1-146, (M.Sc. thesis, in Turkish).
- 2) Akca, D., 2003. Re-sequencing a historical palm leaf manuscript. Internal Technical Report at IGP - ETH, Zurich, May, 39 pages.
- 3) Akca, D., 2003. Generalized Procrustes Analysis and its applications in Photogrammetry. Internal Technical Report at IGP - ETH, Zurich, June, 23 pages.
- 4) Akca, D., 2004. Least squares 3D curve matching. Internal Technical Report at IGP – ETH, Zurich, March, 27 pages.
- 5) Akca, D., 2005. Co-registration of large volume laser scanner point clouds: The Pinchango Alto (Peru) data set. Internal Technical Report at IGP –ETH, Zurich, July, 21 pages.
- 6) Akca, D., and Zhang, L., 2006. Evaluation of spatial accuracy potential of the SRTM X-SAR DEMs. Technical report to German Aerospace Center (DLR), Zurich, February, 7 pages.
- 7) Akca, D., 2007. Accuracy concept for 3D building reconstruction. Technical report to Ordnance Survey (UK), Zurich, February, 11 pages.

- 8) Akca, D., 2007. First processing results of the Avonmouth and Bournemouth test sites by the LS3D software. Technical Report to Ordnance Survey (UK), Zurich, September, 29 pages.
- 9) Akca, D., and Gruen, A., 2008. Photogrammetric Documentation of Alois Payer's Art Studio in Einsiedeln, Switzerland. Internal Technical Report at IGP - ETH, Zurich, April, 16 pages.
- 10) Springman, S., Askarinejad, A., Kienzler, P., Casini, F., Sperl, M., Bleiker, E., Akca, D., and Gruen, A., 2010. The Ruedlingen monitoring and landslide experiment. D-BAUG Annual Report 2009, ETH Zurich, March 2010, pp. 26-31.
- 11) Akca, D., and Gruen, A., 2010. Photogrammetric Processing of Image Data of the TRAMM Project. Internal Technical Report submitted to the IGT - ETH Zurich, Istanbul, October, 17 pages.
- 12) Akca, D., 2010. Special Issue "Remote Sensing in Natural and Cultural Heritage". Editor Note. Remote Sensing, volume 3.
- 13) Akca, D., 2017. 3D recording, documentation and management of cultural heritage. Book review. Journal of Spatial Science, 62 (1), 207-208.

8. Projeler

ETH Zurich'te gerçekleştirilen projeler

- 1) Re-Sequencing a Historical Palm Leaf Manuscript, in cooperation with Museum Rietberg Zürich (Switzerland), finished project. 2002-2003.
<http://www.photogrammetry.ethz.ch/research/palmleaf/>
- 2) Automated Registration and Evaluation of Laser Scanner Point Clouds and Images, funded by an ETHZ Research Grant (TH Project number: 13./04-1), finished project. 2003-2007.
A paper of the project was awarded by the ISPRS Prize for Best Papers by Young Authors, 20th ISPRS Congress, Istanbul, 2004.
<http://www.photogrammetry.ethz.ch/research/pointcloud/>
- 3) Development of an Educational Software System for the Digital Monoplotting, funded by the own resources of the professorship, finished project. 2004.
Awarded by the Silber Award at the CATCON Competition at the XXth ISPRS Congress in Istanbul, 2004.
<http://www.photogrammetry.ethz.ch/research/student/monoplotting.html>
- 4) 3D Modeling of the pre-Inca site Pinchango Alto (Peru) with terrestrial laserscanning and UAV images, in cooperation with Riegl Laser Measurement Systems (Austria), Helicam (Switzerland), and the German Institute of Archaeology, Commission for General and Comparative Archaeology (KAVA) in Bonn (Germany), finished project. 2004.
<http://www.photogrammetry.ethz.ch/research/pinchango/>
- 5) Filling the Data Holes of SRTM C-Band DEMs by use of the Least Squares 3D Surface Matching (LS3D), in cooperation with the Swissphoto AG (Switzerland) and Jeppesen (Denver, USA), finished project. 2005.
<http://www.photogrammetry.ethz.ch/research/srtm/>
- 6) 3D Modeling of the Weary Herakles Statue in Antalya, Turkey, in cooperation with the Breuckmann GmbH (Germany), finished project. 2005-2006.
<http://www.photogrammetry.ethz.ch/research/herakles/>

- 7) Quality Assessment of 3D Building Data,
in cooperation with the Ordnance Survey Research (UK), finished project. 2006-2007.
https://www.rdb.ethz.ch/projects/project.php?proj_id=20466
- 8) Mobile Photogrammetry,
funded by the own resources of the professorship, finished project. 2006-2007.
https://www.rdb.ethz.ch/projects/project.php?proj_id=20467
- 9) 3D Modeling of a Khmer head in Museum Rietberg Zurich, 2007.
in cooperation with Museum Rietberg Zürich (Switzerland), finished project.
Awarded by the Nachwuchsförderpreises für Photogrammetrie, Fernerkundung und Geoinformation - in Memoriam Prof. Dr. Karl Kraus, 2. Preis, Dreilaendertagung 2007 der SGBPF, DGPF, OVG, in Muttenz (Switzerland).
<http://www.photogrammetry.ethz.ch/research/khmer/>
- 10) Calibration and Validation of ALOS/PRISM Images and Products, 2007.
in cooperation with the Japan Aerospace Exploration Agency (JAXA) and GAEL Consultant (France) of ESA/ESRIN, finished project.
<http://www.photogrammetry.ethz.ch/research/ALOS/>
- 11) 3D Modeling of Alfred Escher Statue in Zurich, 2007.
in cooperation with the Credit Suisse (Switzerland), finished project.
<http://www.photogrammetry.ethz.ch/research/escher/>
- 12) Photogrammetric Documentation of Alois Payer's Art Studio in einsiedeln, Switzerland,
in cooperation with the Institute of Historic Building Research and conservation of ETH Zurich, finished project. 2008.
- 13) TRAMM - Triggering of Rapid Mass Movements in Steep Terrain,
in cooperation with the Institute for Geotechnical Engineering of ETH Zurich and Swiss Federal Research Institute WSL, finished project. 2008-2009.
<http://www.cces.ethz.ch/projects/hazri/tramm/>

Işık Üniversitesinde gerçekleştirilen projeler

- 1) Cep telefonu kameralarıyla 3 boyutlu mobil modelleme sistemi tasarımı,
Işık Üniversitesi Bilimsel Araştırma Projesi, 2011 – 2013.
- 2) Üç boyutlu nokta bulutu verileri için anizotropik örgü (mesh) entegrasyonu metodu ve nokta hata modelinin geliştirilmesi,
TÜBİTAK 1001, Proje no: 115Y239; 2016 – 2018.

9. İdari Görevler

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10. Bilimsel Kuruluşlara Üyelikler

- Tapu ve Kadastro Meslek Lisesi (TKML) Mezunları Derneği, 1993.
- TMMOB – Harita ve Kadastro Mühendisleri Odası (HKMO), 1997.
- Ulusal Geodezi Komisyonu, 2002.
- Amerikan Fotogrametri ve Uzaktan Algılama Birliği, 2006 - 2017
American Society for Photogrammetry and Remote Sensing (ASPRS).

- MDPI Remote Sensing dergisinin Editör Kurulu Üyesi, 2008.
<http://www.mdpi.com/journal/remotesensing/editors>
- İsviçre Fotogrametri ve Uzaktan Algılama Birliği, 2009
Schweizerische Gesellschaft für Photogrammetrie und Fernerkundung (SGPF).
- Harita Teknolojileri Elektronik Dergisi, Yayın Kurulu Üyesi, 2011.
- Journal of Geodesy and Geoinformation, Yayın kurulu Üyesi, 2012.
<http://www.hkmodergi.org/jgg/index.php>
- ISPRS Journal of Photogrammetry and Remote Sensing dergisinin Editör Danışma Kurulu Üyesi, 2016.
<http://www.journals.elsevier.com/isprs-journal-of-photogrammetry-and-remote-sensing/editorial-board>
- MDPI Heritage dergisinin Editör Kurulu Üyesi, 2017.
<http://www.mdpi.com/journal/heritage/editors>
- MDPI Sci dergisinin Danışma Kurulu Üyesi, 2018.
<http://www.mdpi.com/journal/sci/editors>

11. Ödüller

- Yüksek Onur Öğrencisi ve Bölüm Birincisi olarak mezuniyet (GNO: 3.43/ 4.00)
Jeodezi ve Fotogrametri Mühendisliği Bölümü, Karadeniz Teknik Üniversitesi, 1997.
- TÜBİTAK - Bilim Adamı Yetiştirme Grubu (BAYG) Yurtiçi Doktora Bursu, 2001-2002.
- ISPRS En İyi Genç Yazar Ödülü, 2004
[The ISPRS Prize for Best Papers by Young Authors](#), 20th ISPRS Congress.
- ETH Zürih Gümüş Madalyası, 2008
[The Silver Medal of ETH Zurich](#) – Distinction of the Doctoral Thesis.
- Carl Pulfrich Ödülü, 2009
[Carl Pulfrich Award](#), Intergraph Corporation.
- Elsevier – Certificate of Outstanding Contribution in Reviewing – *ISPRS Journal of Photogrammetry and Remote Sensing*, 2014.
- Elsevier – Certificate of Excellence in Reviewing – *ISPRS Journal of Photogrammetry and Remote Sensing*, 2016.
- Elsevier – Certificate of Outstanding Contribution in Reviewing – *ISPRS Journal of Photogrammetry and Remote Sensing*, 2016.
- Publons Peer Review Awards 2017 – Top 1 % of peer reviewers in Earth and Planetary Sciences
- Publons Peer Review Awards 2018 – Top 1 % of reviewers in Geosciences

12. Verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz:

Akad. Yıl	Dönem	Dersin Adı	Haft. Saati		Öğr. Sayısı
			Teor.	Uyg.	
2008	Bahar	Photogrammetry and Machine Vision - (Y.Lisans)	2	1	10
		Close-range Photogrammetry - (Y.Lisans)	2	1	7
2009	Bahar	Photogrammetry and Machine Vision - (Y.Lisans)	2	1	8
		Close-range Photogrammetry - (Y.Lisans)	2	1	8
2009	Güz	Introduction to Computing - (Lisans)	2	2	99
		Computer Organization - (Lisans)	3	1	30
2010	Bahar	Introduction to Computing - (Lisans)	2	2	95
		Data Structures and Algorithms - (Lisans)	3	2	60
2010	Yaz	Introduction to Computing - (Lisans)	2	2	19
2010	Güz	Introduction to Computing - (Lisans)	2	2	60
		Computer Organization - (Lisans)	3	1	22
2011	Bahar	Introduction to Computing - (Lisans)	2	2	87
		Data Structures and Algorithms - (Lisans)	3	2	50
		Geographical Information Systems – (Lisans)	3	0	23
2011	Güz	Introduction to Computing - (Lisans)	2	2	139
		Mathematics I – (Lisans)	3	0	63
2012	Bahar	Introduction to Programming – (Lisans)	3	2	65
		Geographical Information Systems – (Lisans)	3	0	26
2012	Güz	Introduction to Programming – (Lisans)	3	2	62
		Geology – (Lisans)	3	0	10
		Computer Aided Technical Drawing – (Lisans)	1	1	10
2013	Bahar	Introduction to Programming – (Lisans)	3	2	50
		Surveying – (Lisans)	2	2	50
2013	Güz	Computer Aided Technical Drawing – (Lisans)	2	2	60
2014	Bahar	Surveying – (Lisans)	2	2	50
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	60
2014	Güz	Computer Aided Technical Drawing – (Lisans)	2	2	70
		Earthworks – (Lisans)	3	0	60
2015	Bahar	Surveying – (Lisans)	2	2	60
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	75
		Müh. İçin Uygulamalı Olasılık ve İstatistik – (Lisans)	3	0	21
2015	Güz	Computer Aided Technical Drawing – (Lisans)	2	2	79
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	16
2016	Bahar	Surveying – (Lisans)	2	2	40
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	59
		Müh. İçin Uygulamalı Olasılık ve İstatistik – (Lisans)	3	0	38
2016	Güz	Computer Aided Technical Drawing – (Lisans)	2	2	56
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	17
2017	Bahar	Surveying – (Lisans)	2	2	38
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	55
		Müh. İçin Uygulamalı Olasılık ve İstatistik – (Lisans)	3	0	70
2017	Güz	Computer Aided Technical Drawing – (Lisans)	2	2	52
		Müh. İçin Uygulamalı Olasılık ve İstatistik – (Lisans)	3	0	39
2018	Bahar	Surveying – (Lisans)	2	2	49
		Applied Probability and Statistics for Engineers – (Lisans)	3	0	78
		Müh. İçin Uygulamalı Olasılık ve İstatistik – (Lisans)	3	0	63

13. Diğer akademik ve bilimsel faaliyetler

13.1. Hakemlik yaptığı dergiler

1. AIP Review of Scientific Instruments
2. Applied Geography
3. Asian Journal of Geoinformatics
4. Computer Graphics Forum
5. Computer Vision and Image Understanding
6. Computer-Aided Design
7. Computers and Geosciences
8. Current Analytical Chemistry
9. DAGM (German Association for Pattern Recognition)
10. Digital Signal Processing
11. EARSeL (European Association of Remote Sensing Laboratories) e-proceedings
12. Ekscentar
13. Eurographics
14. Experimental Techniques
15. FP7 - FRACTALS - Future Internet Enabled Agricultural Applications
16. Geodetski Vestnik
17. GIScience and Remote Sensing
18. Hydrological Processes
19. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
20. IEEE Geoscience and Remote Sensing Letters
21. IEEE Transactions on Computational Imaging
22. IEEE Transactions on Geoscience and Remote Sensing
23. IEEE Transactions on Pattern Analysis and Machine Intelligence
24. IEEE/RSJ International Conference on Intelligent Robots and Systems
25. Int. Conference on Digital Media and its Applications in Cultural Heritage
26. International Journal of Digital Earth
27. International Journal of Geographical Information Science
28. International Journal of Remote Sensing
29. International Journal of Remote Sensing Applications
30. ISPRS Journal of Photogrammetry and Remote Sensing
31. ISPRS Technical Commission II Symposium 2018
32. Journal of Applied Geodesy
33. Journal of Electronic Imaging
34. Journal of Geodesy
35. Journal of Geodesy and Geoinformation
36. Journal of Zhejiang University Science
37. MDPI Remote Sensing
38. MDPI Sensors
39. MDPI Heritage
40. Photogrammetric Engineering and Remote Sensing
41. Photogrammetric Journal of Finland
42. SPIE Journal of Applied Remote Sensing
43. SPIE Journal of Electronic Imaging
44. SPIE Optical Engineering
45. Structural Health Monitoring
46. Survey Review

47. The Photogrammetric Record
48. VAST (International Symposium on virtual Reality, Archeology and Cultural Heritage)

Publons: 25+ Journals 102+ reviews

<https://publons.com/author/1245820/devrim-akca>

13.2. Editörlük yaptığı dergiler

- 1) MDPI Remote Sensing (Guest Editor)

13.3. Atıflar (20/09/2018 itibariyle)

Thomson Reuters 387+
<http://www.researcherid.com/rid/A-1065-2008>

Elsevier Scopus 550+
<http://www.scopus.com/authid/detail.url?authorId=8636145300>

Google Scholar 1380+
<http://scholar.google.com/citations?user=u1D73M0AAAAJ&hl=en>