

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Washington University in St. Louis, Mühendislik, Sistemler Bilimi ve Matematik, Amerika Birleşik Devletleri 1994 - 2000

Yüksek Lisans, Washington University in St. Louis, Mühendislik, Sistemler Bilimi ve Matematik , Amerika Birleşik Devletleri 1994 - 1996

Lisans Çift Anadal, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1988 - 1994

Yüksek Lisans, Imperial College of Science, Technology and Medicine, Mühendislik, Elektrik-Elektronik Müh., İngiltere 1992 - 1993

Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1988 - 1992

Araştırma Alanları

Analiz ve Sentez Yöntemleri , Benzetim, Modelleme ve Tanıma, Dağıtık Kontrol Sistemleri, Denetleyiciler , Doğrusal Olmayan Kontrol Sistemleri , Durum Gözleyicileri ve Kestirim, Genel Sistem Kuramı , Gürbüz Kontrol, Haberleşmeli Kontrol Sistemleri, Kararlılık , Kesikli Zaman Sistemleri ve Bilgisayarla Kontrol , Matematiksel Teknikler , Optimal Kontrol , Sistem Tanılama, Uyarlanabilir Sistemler , Zaman Bağımlı Sistemler , Bilgisayarla Görme, Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Biyomedikal Görüntü İşleme, Enerji İletimi ve Dağıtımı , Biyolojik Modelleme, Nörosistemler, Diferansiyel denklemler, Dinamik Sistemler ve Ergodik Kuramı, Olasılık Kuramı, Stokastik Süreçler, Optimizasyon, Sistem Kuramı:Kontrol

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Identification of IDH and TERTp mutation status using $^1\text{H-MRS}$ in 112 hemispheric diffuse gliomas.**
Ozturk-Isik E., Cengiz S., Ozcan A., Yakicier C., Ersen D., Pamir M. N. , Özduman K., Dincer A.
Journal of magnetic resonance imaging : JMRI, 2019 (SCI İndekslerine Giren Dergi)
- **On using signal magnitude in diffusion magnetic resonance measurements of restricted motion.**
Özcan A.
Magnetic resonance imaging, cilt.62, ss.209-213, 2019 (SCI İndekslerine Giren Dergi)
- **A Platform Integrating Acquisition, Reconstruction, Visualization, and Manipulator Control Modules for MRI-Guided Interventions.**
Velazco G., Navkar N., Gui D., Morales C., Christoforou E., Ozcan A., Abinahed J., Al-Ansari A., Webb A., Seimenis I., et al.
Journal of digital imaging, cilt.32, ss.420-432, 2019 (SCI İndekslerine Giren Dergi)
- **Interactive Feature Space Explorer(C) for multi-modal magnetic resonance imaging**
Oezcan A., Tuerkbey B., Choyke P. L. , Akin O., Aras O., Mun S. K.
MAGNETIC RESONANCE IMAGING, cilt.33, ss.804-815, 2015 (SCI İndekslerine Giren Dergi)
- **Quantifying the CDK inhibitor VMY-1-103's activity and tissue levels in an in vivo tumor model by LC-MS/MS and by MRI.**
Sirajuddin P., Das S., Ringer L., Rodriguez O., Sivakumar A., Lee Y., Üren A., Fricke S., Rood B., Ozcan A., et al.
Cell cycle (Georgetown, Tex.), cilt.11, ss.3801-9, 2012 (SCI İndekslerine Giren Dergi)
- **A system for endoscopic mechanically scanned localized proton MR and light-induced fluorescence emission spectroscopies.**

Sonmez A., Webb A., Spees W., Ozcan A., Tsekos N.

Journal of magnetic resonance (San Diego, Calif. : 1997), cilt.222, ss.16-25, 2012 (SCI İndekslerine Giren Dergi)

- **Background and Mathematical Analysis of Diffusion MRI Methods.**

Ozcan A., Wong K., Larson-Prior L., Cho Z., Mun S.

International journal of imaging systems and technology, cilt.22, ss.44-52, 2012 (SCI İndekslerine Giren Dergi)

- **Minimization of imaging gradient effects in diffusion tensor imaging.**

Özcan A.

IEEE transactions on medical imaging, cilt.30, ss.642-54, 2011 (SCI İndekslerine Giren Dergi)

- **Characterization of imaging gradients in diffusion tensor imaging.**

Özcan A.

Journal of magnetic resonance (San Diego, Calif. : 1997), cilt.207, ss.24-33, 2010 (SCI İndekslerine Giren Dergi)

- **Noise and nonlinear estimation with optimal schemes in DTI.**

Özcan A.

Magnetic resonance imaging, cilt.28, ss.1335-43, 2010 (SCI İndekslerine Giren Dergi)

- **The Interconnection of MRI Scanner and MR-Compatible Robotic Device: Synergistic Graphical User Interface to Form a Mechatronic System.**

Ozcan A., Tsekos N.

IEEE/ASME transactions on mechatronics : a joint publication of the IEEE Industrial Electronics Society and the ASME Dynamic Systems and Control Division, cilt.13, ss.362-369, 2008 (SCI İndekslerine Giren Dergi)

- **A general-purpose MR-compatible robotic system: implementation and image guidance for performing minimally invasive interventions..**

Tsekos N., Christoforou E., Ozcan A.

IEEE engineering in medicine and biology magazine : the quarterly magazine of the Engineering in Medicine & Biology Society, cilt.27, ss.51-8, 2008 (SCI İndekslerine Giren Dergi)

- **Postmortem delay does not change regional diffusion anisotropy characteristics in mouse spinal cord white matter.**

Kim J., Trinkaus K., Ozcan A., Budde M., Song S.

NMR in biomedicine, cilt.20, ss.352-9, 2007 (SCI İndekslerine Giren Dergi)

- **Performance of interventions with manipulator-driven real-time MR guidance: implementation and initial in vitro tests.**

Christoforou E., Akbudak E., Ozcan A., Karanikolas M., Tsekos N.

Magnetic resonance imaging, cilt.25, ss.69-77, 2007 (SCI İndekslerine Giren Dergi)

- **Design and testing of a Robotic system for MR image-guided interventions**

Christoforou E. G. , Tsekos N. Y. , Özcan A.

Journal of Intelligent and Robotic Systems: Theory and Applications, cilt.47, ss.175-196, 2006 (SCI İndekslerine Giren Dergi)

- **A prototype manipulator for magnetic resonance-guided interventions inside standard cylindrical magnetic resonance imaging scanners.**

Tsekos N., Ozcan A., Christoforou E.

Journal of biomechanical engineering, cilt.127, ss.972-80, 2005 (SCI İndekslerine Giren Dergi)

- **A computational method for the calculation of the feasibility boundary and clustering in differential-algebraic systems**

Özcan A., Schättler H.

IEEE Transactions on Circuits and Systems I: Regular Papers, cilt.52, ss.1940-1952, 2005 (SCI İndekslerine Giren Dergi)

- **Parallel processing of spatial and serial order information before moving to a remembered target.**

Smyrnis N., d'Avossa G., Theleritis C., Mantas A., Ozcan A., Evdokimidis I.

Journal of neurophysiology, cilt.93, ss.3703-8, 2005 (SCI İndekslerine Giren Dergi)

- **(Mathematical) Necessary conditions for the selection of gradient vectors in DTI.**

Ozcan A.

Journal of magnetic resonance (San Diego, Calif. : 1997), cilt.172, ss.238-41, 2005 (SCI İndekslerine Giren Dergi)

- **Sequential linear-quadratic method for differential games with air combat applications**

Mukai H., Tanikawa A., Tunay I., Ozcan İ. A. , Katz I., Schättler H., Rinaldi P., Wang G., Yang L., Sawada Y.

Computational Optimization and Applications, cilt.25, ss.193-222, 2003 (SCI İndekslerine Giren Dergi)

- **Radial organization of developing preterm human cerebral cortex revealed by non-invasive water diffusion anisotropy MRI.**

McKinstry R., Mathur A., Miller J., Ozcan A., Snyder A., Schefft G., Almlı C., Shiran S., Conturo T., Neil J.

Cerebral cortex (New York, N.Y. : 1991), cilt.12, ss.1237-43, 2002 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- **Complete fourier direct magnetic resonance imaging (CFD-MRI) for diffusion MRI.**

Ozcan A.

Frontiers in integrative neuroscience, cilt.7, ss.18, 2013 (Diğer Kurumların Hakemli Dergileri)

- **COMPARISON OF THE COMPLETE FOURIER DIRECT MRI WITH EXISTING DIFFUSION WEIGHTED MRI METHODS.**

Ozcan A.

Proceedings. IEEE International Symposium on Biomedical Imaging, cilt.2011, ss.931-934, 2011 (Diğer Kurumların Hakemli Dergileri)

- **The validation of complete Fourier direct MR method for diffusion MRI via biological and numerical phantoms.**

Özcan A., Quirk J., Wang Y., Wang Q., Sun P., Spees W., Song S.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.2011, ss.3756-9, 2011 (Diğer Kurumların Hakemli Dergileri)

- **Simulations and experimental demonstration of coupling molecular and macroscopic level modalities with a robotic manipulator.**

Sonmez A., Hedayati Y., Özcan A., Spees W., Tsekos N.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.2011, ss.7446-9, 2011 (Diğer Kurumların Hakemli Dergileri)

- **A new model for diffusion weighted MRI: complete Fourier direct MRI.**

Ozcan A.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.2010, ss.2710-3, 2010 (Diğer Kurumların Hakemli Dergileri)

- **Theoretical and experimental analysis of imaging gradients in DTI.**

Ozcan A.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.2009, ss.2703-6, 2009 (Diğer Kurumların Hakemli Dergileri)

- **Decoupling of imaging and diffusion gradients in DTI.**

Ozcan A.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.2009, ss.2707-10, 2009 (Diğer Kurumların Hakemli Dergileri)

- **Fast and efficient radiological interventions via a graphical user interface commanded magnetic resonance compatible robotic device.**

Ozcan A., Christoforou E., Brown D., Tsekos N.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.1, ss.1762-7, 2006 (Diğer Kurumların Hakemli Dergileri)

Ozcan A., Christoforou E., Brown D., Tsekos N.

Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference, cilt.1, ss.1762-7, 2006 (Diğer Kurumların Hakemli Dergileri)

- **Changes in Prefrontal Cortex's EEG Based Functional Connectivity During Laparoscopic Simulation Training**
Keskin S., Aksoy M. E. , Ucrak F., Bayram M. S. B. , Ozcan İ. A.
2019 41st Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC), Berlin, Almanya, 23 - 27 July 2019
- **Distribution of ADC-Ki67 with molecular subtypes labels**
Aksoy Özcan Ü., Ulus S., Ekemen S., Oyan Uluç B., Ozcan İ. A.
25th European Congress of Radiology (ECR) 2019, Vienna, Avusturya, 27 February - 03 March 2019, ss.1
- **Testing machine learning algorithms' performance for non-invasively identifying breast cancer molecular subtypes using BI-RADS evaluations**
Özcan İ. A. , Aksoy Özcan Ü., Ekemen S., Ulus S., Oyan Uluç B.
San Antonio Breast Cancer Symposium, Texas, Amerika Birleşik Devletleri, 4 - 10 December 2018, cilt.79, no.4, ss.5
- **Correlation of proliferation index markers (Ki-76 and PHH3) with breast MRI apparent diffusion coefficient values**
Ekemen S., Ozcan İ. A. , Aksoy Özcan Ü., Ulus S., Oyan Uluç B.
San Antonio Breast Cancer Symposium, Texas, Amerika Birleşik Devletleri, 4 - 08 December 2018, cilt.79, no.4, ss.6
- **Robot-assisted mechanical scanning and co-registration of Magnetic Resonance Imaging and light-induced fluorescence**
Sonmez A. E. , Spees W. M. , Ozcan A., Deng Z., Webb A. G. , Tsekos N. V.
2012 4th IEEE RAS and EMBS International Conference on Biomedical Robotics and Biomechanics, BioRob 2012, Rome, İtalya, 24 - 27 June 2012, ss.775-780
- **Robot-facilitated scanning and co-registration of multi-modal and multi-level sensing: Demonstration with magnetic resonance imaging and spectroscopy**
Sonmez A. E. , Özcan A., Spees W. M. , Tsekos N. V.
2011 IEEE International Conference on Robotics and Automation, ICRA 2011, Shanghai, Çin, 9 - 13 May 2011, ss.1133-1138
- **Manipulator for magnetic resonance imaging guided interventions: Design, prototype and feasibility**
Christoforou E. G. , Özcan A., Tsekos N. V.
2006 IEEE International Conference on Robotics and Automation, ICRA 2006, Orlando, FL, Amerika Birleşik Devletleri, 15 - 19 May 2006, cilt.2006, ss.3838-3843
- **Robotic arm for magnetic resonance imaging guided interventions**
Christoforou E. G. , Ozcan A., Tsekos N. V.
1st IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechanics, 2006, BioRob 2006, Pisa, İtalya, 20 - 22 February 2006, cilt.2006, ss.911-916
- **Game-theoretic linear-quadratic method for air mission control**
Mukai H., Tanikawa A., Tunay I., Ozcan İ. A. , Katz I., Schättler H., Rinaldi P., Wang G., Yang L., Sawada Y.
39th IEEE Conference on Decision and Control, Sydney, Avustralya, 12 - 15 December 2000, cilt.3, ss.2574-2580
- **On the calculation of the feasibility boundary for differential-algebraic systems**
Ozcan İ. A. , Schattler H.
The 38th IEEE Conference on Decision and Control (CDC), Phoenix, AZ, USA, 7 - 10 December 1999, cilt.3, ss.2580-2586

Atıflar

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