ÖZGEÇMİŞ

15-12-2023

1. **Adı Soyadı** : Yusuf Ziya İDER
2. **Doğum Tarihi** : 09 Ekim 1951
3. **Unvanı** : Profesör
4. **Öğrenim Durumu :**

Derece	Alan	Üniversite	Yıl
Lisans	Elektrik Mühendisliği	Orta Doğu Teknik Üniversitesi	1973
Y. Lisans	Biyomedikal Mühendisliği	University of Southern California	1976
Doktora	Biyomedikal Mühendisliği	Northwestern University	1979

5. Akademik pozisyonlar

Yardımcı Doçent	Elektrik-Elektronik Müh.	Orta Doğu Teknik Üniv.	1983-1984
Doçent	Elektrik-Elektronik Müh.	Orta Doğu Teknik Üniv.	1984-1990
Profesör	Elektrik-Elektronik Müh.	Orta Doğu Teknik Üniv.	1990-2000
Profesör	Elektrik-Elektronik Müh.	Bilkent Üniversitesi	2000-2023
Profesör	Elektrik-Elektronik Müh.	Başkent Üniversitesi	4-9-2023 - ...

Doçent unvanını aldığı tarih: 1984 Doçentlik anabilim dalı : Biyo-Elektronik

Özet Bilgi:

Deneyim ve ilgi alanları

Araştırma:

- Fizyolojik sinyallerin toplanması ve işlenmesİ: Kişisel bilgisayar bazlı EKG tasarımı, yorumlu EKG, Geç Potansiyeller, Kalp Hızı Değişkenliği, Kalp Sesleri, Mikroişlemci bazlı taşınabilir EEG tasarımı, EEG bazlı Beyin-Bilgisayar arayüzleri donanım ve yazılım tasarımı
- Medikal Görüntüleme: 0.15T Manyetik Rezonans Görüntüleme Sistemi Tasarımı, 3T Manyetik Rezonans Elektriksel Empedans Görüntüleme Ek-donanım ve Yazılım Tasarımı

Klinik Mühendisliği:

- 1983-1990 Türkiye Yüksek İhtisas Hastanesi Tıbbi Aygıtlar Bakım Onarım Merkezinin Kurulması ve İşletilmesi - ODTÜ Döner Sermaye Projesi Yürütücüsü.

Endüstri ve Danışmanlık deneyimi:

- 1988-1998: PC tabanlı Elektrokardiyografi sistemi tasarımı, geliştirilmesi, ve üretilmesi - Kardiosis Ltd. Şirketi kurucu ortağı ve danışmanı.
- 1996-1998: Başkent Üniversitesi Biyomedikal Teknolojisi Meslek Yüksek Okulu Kuruluş ve Akademik Danışmanlığı.

Verilen dersler

- Biyomedikal Sinyaller ve Enstrumantasyon
- Fizyolojik Kontrol Sistemleri Analiz ve Modellenmesi
- Tıbbi Görüntüleme (X-ray, Ultrasound, Nuclear Medicine, MR etc)
- İleri düzey Manyetik Rezonans Görüntüleme
- Lineer Cebir, Diferansiyel Denlemler, Nümerik metodlar
- Analog Elektronik, Sayısal Elektronik, Sayısal Tasarım

Başlıca Araştırma Eserim 7.1 Uluslararası hakemli dergilerde yayınlanan makaleler bölümünde kırmızıya boyanmış olan 13 numaralı makaledir.

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1 Yüksek Lisans Tezleri

1. Muhammad Nabi Yasinzai 2020 (BİLKENT) A New Approach for Designing cVEPBCI Stimuli based on Superposition of Edge Responses
2. Abdul Waheed 2019 (BİLKENT) Design and Development of an SSVEP based Low Cost, Wearable, and Wireless BCI System
3. Suleman Aijaz Memon 2019 (BİLKENT) Hybrid and Model based Approaches for new BCI Spellers
4. Çelik Boğa 2019 (BİLKENT) Iterative Fitting Approach to cr_MREPT
5. Safa Özdemir 2018 (BİLKENT) Improvement and Comparison of Complex B1 Mapping Techniques for use in MREPT
6. Toygun Başaklar 2018 (BİLKENT) Experimental and Model Based Investigation of the Effects of High Stimulus Presentation Rate on Code-modulated Visual Evoked Potential Based Brain-Computer Interfaces
7. Yiğit Tuncel 2018 (BİLKENT) Experimental and Model Based Investigation of Period Doubling Phenomenon in Human Steady State Visual Evoked Potential Responses
8. Gülşah Yıldız 2018 (BİLKENT) Low Convective Field Artifact Elimination Using Dielectric Padding and Multichannel Receive in cr-MREPT Conductivity Images
9. Gökhan Arıtürk 2018 (BİLKENT) Design, Implementation and Construction of an Eight Channel RF TEM Array and its use in MR-EPT
10. Taha Ufuk Taşçı 2014 (BİLKENT) FPGA based Pulse Width Modulation Drive for Underwater Low frequency Magnetic Field Generation
11. Fatih Süleyman Hafalır 2013 (BILKENT) Convection-Reaction Equation based Magnetic Resonance Electrical Properties Tomography (cr-MREPT)
12. Fatih Emre Şimşek 2013 (BİLKENT) Finite Element Method based Simulations of Low Frequency Magnetic Field in Sea Water

13. Necip Gürler 2012 (BILKENT) Finite Element Method Based Simulation, Design, And Resonant Mode Analysis of Radio Frequency Birdcage Coils Used in Magnetic Resonance Imaging
14. Remziye İrem Bor 2012 (BILKENT) Real-time Noise Cancellation using ICA-PSO-PE
15. Ömer Faruk Oran 2011 (BILKENT) Magnetic Resonance Electrical Impedance Tomography based on the solution of the Convection Reaction Equation and 3D Fourier Transform Magnetic Resonance Current Density Imaging
16. Mustafa Rıdvan Cantaş 2012 (BILKENT) Modified 3D Sensitivity Matrix Method and Multichannel Current source for Magnetic Resonance Electrical Impedance Tomography (MREIT)
17. Okay Tunca Korkmaz 2005 (BILKENT) Design and Implementation of a PC Based Heart Rate Variability and Respiration Recording System
18. İsmail Uzun 2004 (BILKENT) XML Based Framework for Web-Based Neurocardiovascular Simulation
19. Levent Özparlak 2004 (BILKENT) Three dimensional Induced Current Magnetic Resonance-Electrical Impedance Tomography
20. Serkan Onart 2003 (BILKENT) Development of image reconstruction algorithms for three dimensional magnetic resonance – electrical impedance tomography
21. Ersin Şengül 2003 (BILKENT) Capacity and spectrum efficiency analysis of an asymmetric PMR system with DAB downlink
22. Koray Uyar 2001 (METU) Development of a compression algorithm suitable for exercise ECG data
23. Serdar Yılmaz 1998 (METU) Development of simulation software for high resolution ECG signals
24. Yusuf Bozkaya 1998 (METU) Design and implementation of computer based uroflowmeter system
25. Özlem Birgül 1997 (METU) Electrical impedance tomography using magnetic fields generated by injected currents
26. Yeşim Serinağaoğlu 1997 (METU) Modeling and spectral analysis of T-wave alternans time seies in the electrocardiogram
27. Deniz Sabuncuoğlu 1997 (METU) Spectral analysis of heart rate variability during exercise electrocardiography
28. İlker Çebi 1997 (METU) Emulation of a PC-based ultrasonic imaging system based on the subaperture processing approach
29. Nezih Akpınar 1997 (METU) The implementation of multi spin echo method for fast T2-weighted imaging in 0.15 Tesla magnetic resonance imaging system
30. Muhsin Atamer Öcal 1997 (METU) The real time transmission of low frequency signals through telephone lines using modem
31. Hüseyin Alper Güçer 1995 (METU) Development of PC based system for acquisition and spectral analysis of R-R and P-R intervals of high resolution ECG
32. Fatih Bilal Yülek 1994 (METU) A debugger tool for transputer systems
33. Mehmet Cem Şakı 1992 (METU) Use of high resolution electrocardiography techniques in the study of P waves
34. Ender Turan 1992 (METU) Implementation of 2DFT spin echo NMR pulse sequence on a PC based system

35. Cem Tarakçı 1992 (METU) Generation of RF and gradient pulse waveforms using TMS320C25 microprocessor for magnetic resonance imaging
36. Zeki Özkul 1992 (METU) A PC based system for heart rate variability analysis
37. Mahmoud Moh'd Said 1991 (METU) Analysis of three-dimensional software EIT phantoms by the finite element method
38. Kumsal Deniz Sözen 1991 (METU) Design and implementation of an electrophysiological data acquisition and analysis system
39. Bora Nakiboğlu 1991 (METU) Use of peripheral water layer of known conductivity for electrical impedance tomography
40. Nevzat Güneri Gençer 1988 (METU) Study of algebraic recontruction algorithms for practical application of EIT
41. Erkan Dorken 1988 (METU) Determination of anatomical boundaries by ultrasound
42. Ergin Atalar 1987 (METU) An iterative backprojection algorithm for electrical impedance imaging using finite element method
43. Sinan Karaaslan 1986 (METU) Design and realization of a polarographic oxygen sensor and monitoring system
44. Erdal Saygın 1985 (METU) Design and implementation of a non-invasive quality control instrument for diagnostic X-ray generators
45. Behçet Murat Eyüboğlu 1985 (METU) A study on the problems of monitoring the level of neuromuscular junction blockade using evoked EMG
46. Berkan Ertan 1985 (METU) An RS-232c compatible tape interface for digital data
47. Ersin Yiğiter 1984 (METU) Desgn and development of an electrical safety tester for medical equipment
48. Ömer Sarıcılar 1984 (METU) Design and construction of an EMG based muscle relaxation monitor
49. E Cem Kök 1984 (METU) An adaptive control algorithm for the artificial pancreas
50. Serdar Kayalı 1984 (METU) Design and implementation of microprocessor-based ECG management system
51. İsmet Atalar 1983 (METU) A microprocessor based on-line analyzer of end-plate potential data

6.2 Doktora Tezleri

1. Cemre Arıyürek 2020 (BİLKENT, as co-supervisor)) Frequency Response Analysis and Reconstruction Weighing Schemes for MR Elastography
2. Ömer Faruk Oran 2017 (BILKENT) Low-Frequency Conductivity Imaging using MRI Gradient Induced Currents
3. Necip Gürler 2017 (BILKENT) Multichannel and Phase Based Magnetic Resonance Electrical Properties Tomography
4. Esra Abacı Türk 2012 (BİLKENT, as co-supervisor) Novel methods and Analysis of B0 and B1 Gradients in Magnetic Resonance Imaging
5. Metin Yıldız 2006 (Selçuk University, co-supervisor) Experimental and model based study of the interaction between respiration and heart rate variability and PC-based real time system design (Solunum ile kalp hızı değişkenliği ilişkisinin deneysel ve model bazlı incelenmesi ve PC-tabanlı gerçek zamanlı system tasarımı).
6. Özlem Birgül 2002 (METU, co-supervisor) Development of reconstruction algorithms for magnetic resonance – electrical impedance tomography and experimental

realization (Ö Birgül has received the Best Thesis of the Year award of METU Prof. M. Parlar Education and Research Foundation in 2003)

7. Ahmet Türkmen 2000 (METU) Development of methods for non-invasive assessment of the cardiovascular system using Korotkoff sounds
8. L. Tugan Müftüler 1996 (METU) Measurement of magnetic field generated by nonuniform AC current density using magnetic resonance
9. Nevzat Güneri Gençer 1993 (METU) Electrical Impedance Tomography using induced currents
10. Ahmet Baykal 1992 (METU) Model based analysis of second heart sounds and some anatomical correlates

7. Yayınlar

7.1 Uluslararası hakemli dergilerde yayınlanan makaleler

(sadece 2000 ve sonrası dahil edilmiştir)

1. Cemre Ariyurek, Bilal Tasdelen, Yusuf Ziya Ider and Ergin Atalar, "SNR Weighting for Shear Wave Speed Reconstruction in Tomoelastography", NMR in Biomedicine, 2021;34:e4413. https://doi.org/10.1002/nbm.4413
2. Muhammad Nabi Yasinzai and Yusuf Ziya İder, "New approach for designing cVEP BCI stimuli based on superposition of edge responses", IOP Publishing, Biomed. Phys. Eng. Express 6 (2020) 045018 https://doi.org/10.1088/2057-1976/ab98e7 The initial version of this paper is published in Cornell University arXiv as M. N. Yasinzai, Y. Z. Ider, "New Approach for Designing cVEP BCI Stimuli Based on Superposition of Edge Responses", 2April 2020, arXiv:2004.06766v1
3. Yiğit Tuncel, Toygun Başaklar and Yusuf Ziya Ider, "A model based investigation of the period doubling behavior in human steady-state visual evoked potentials", IOP Publishing, Biomed. Phys. Eng. Express 5 (2019) 045030 https://doi.org/10.1088/2057-1976/ab2d0b
4. Toygun Başaklar , Yiğit Tuncel and Yusuf Ziya Ider, "Effects of high stimulus presentation rate on EEG template characteristics and performance of c-VEP based BCIs", IOP Publishing, Biomed. Phys. Eng. Express 5 (2019) 035023, https://doi.org/10.1088/2057-1976/ab0cee
5. Gokhan Ariturk and Yusuf Ziya Ider, "*B*1+ phase retrieval for non-quadrature radio frequency excitation and its preliminary application in MR-EPT", IOP Publishing *Phys. Med. Biol.* 64 (2019) 02NT02 (11pp) https://doi.org/10.1088/1361-6560/aaf7be, accepted on 11 December 2018, published on 11 January 2019
6. Safa Ozdemir S, Yusuf Ziya Ider, "bSSFP phase correction and its use in magnetic resonance electrical properties tomography", *Magn Reson Med*. 2019;81:934–946, https://doi.org/10.1002/mrm.27446, accepted on 12 June 2018.
7. Gulşah Yıldız and Yusuf Ziya Ider, "Use of dielectric padding to eliminate low convective field artifact in cr-MREPT conductivity images". Magn Reson Med. 2019;81:3168–3184. https://doi.org/10.1002/mrm.27648, accepted on 5-12-2018
8. Y. Tuncel, T. Basaklar, Y. Z. Ider, "Period Doubling Behavior in Human Steady State Visual Evoked Potentials", IOP Publishing, Biomed. Phys. Eng. Express 4 (2018) 025024, https://doi.org/10.1088/2057-1976/aaa78f

9. G. Ariturk, Y. Z. Ider, “Optimal Multichannel Transmission for Improved cr-MREPT", IOP Publishing, *Phys. Med. Biol.* **63** (2018) 045001 (14pp), https://doi.org/10.1088/ 1361-6560/aaa732, accepted on 12-1-2018
10. Omer Faruk Oran and Yusuf Ziya Ider, “Feasibility of Conductivity Imaging Using Subject Eddy Currents Induced by Switching of MRI Gradients”, Magnetic Resonance in Medicine, 77:1926-1937 (2017), DOI 10.1002/mrm.26283
11. Necip Gurler, Yusuf Ziya Ider, “Gradient Based Electrical Conductivity Imaging using MR Phase”, Magnetic Resonance in Medicine 77:137–150 (2016), DOI 10.1002/mrm.26097
12. Necip Gurler, and Yusuf Ziya Ider, “Numerical Methods and Software Tools for Simulation, Design, and Resonant Mode Analysis of Radio Frequency Birdcage Coils Used in MRI”, Concepts in Magnetic Resonance Part B (Magnetic Resonance Engineering), Vol. 45B(1) 13–32 (2015). DOI: 10.1002/cmr.b.21279
13. **Fatih S. Hafalir, Omer F. Oran, Necip Gurler, and Yusuf Z. Ider, “Convection-Reaction Equation Based Magnetic Resonance Electrical Properties Tomography (cr-MREPT)”, IEEE Transactions on Medical Imaging, Vol. 33, No. 3, March 2014, pp. 777-793 - Digital Object Identifier: 10.1109/TMI.2013.2296715**
14. Esra Abacı Turk, Yusuf Ziya Ider, Arif Sanli Ergun, and Ergin Atalar, “An Approximate Fourier Domain Expression for Bloch-Siegert Shift”, Magnetic Resonance in Medicine 73:117–125 (2015). (First published on 29-1-2014 as early view online version) DOI 10.1002/mrm.25104
15. Esra A. Turk, Emre Kopanoglu, Sevin Guney, K. Emre Bugdayci, Y. Ziya Ider, Vakur B. Erturk, and Ergin Atalar, “A Simple Analytical Expression for the Gradient Induced Potential on Active Implants During MRI”, IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 59, NO. 10, OCTOBER 2012, pp. 2845-2851
16. Omer Faruk Oran, Yusuf Ziya Ider, “Magnetic resonance electrical impedance tomography (MREIT) based on the solution of the convection equation using FEM with stabilization”, Phys. Med. Biol. 57 (2012) 5113–5140, doi:10.1088/0031-9155/57/16/5113
17. Yusuf Ziya Ider, Ozlem Birgul, Omer Faruk Oran, Orhan Arikan, Mark J Hamamura and L Tugan Muftuler, “Fourier transform magnetic resonance current density imaging (FT-MRCDI) from one component of magnetic flux density”, Phys. Med. Biol. 55 (2010) 3177–3199, doi:10.1088/0031-155/55/11/013
18. Metin Yildiz, and Yusuf Ziya Ider, “Model based and experimental investigation of respiratory effect on the HRV power spectrum”, IOP Physiol. Meas. Vol.27 (2006) pp.973–988 doi:10.1088/0967-3334/27/10/004
19. Ersin Şengül, Hayrettin Köymen, and Yusuf Ziya İder, “A Spectrally Efficient PMR System Utilizing Broadcast Service”, IEEE Transactions on Broadcasting, Vol.51, N0.4, December 2005, 493-503.
20. Levent Özparlak, Y. Ziya İder, “Induced current magnetic resonance - electrical impedance tomography”, IOP Physiological Measurement, Vol.26 (2005), S289-S305.
21. Y. Ziya İder and Serkan Onart, “Algebraic Reconstruction for 3D MR-EIT using one component of magnetic flux density”, IOP Physiological Measurement Vol. 25. pp.281-294, Feb. 2004.
22. Özlem Birgül, B Murat Eyuboğlu and Y Ziya İder, “Experimental results for 2D Magnetic Resonance Electrical Impedance Tomography (MR-EIT) using magnetic flux density in one direction”, Phys. Med. Biol 48 (2003) 3485-3504

23. Y. Ziya İder, Serkan Onart and William R.B. Lionheart, “Uniqueness and Reconstruction in Magnetic Resonance-Electrical Impedance Tomography (MR-EIT)”, Physiol. Meas. 24(2003) 591-604
24. Özlem Birgül, B Murat Eyuboğlu and Y Ziya İder, “Current constrained voltage scaled reconstruction (CCVSR) algorithm for MR-EIT and its performance with different probing current patterns” Phys. Med. Biol 48 (2003) 653-671
25. Ahmet Türkmen, Yusuf Ziya İder, "Model Based Analysis of the Variation in Korotkoff Sound Onset Time during Exercise", IOP Physiological Measurement Vol. 22. pp.1-13, August 2001.
26. M.K. Batur, A. Oto, Z. Ider, S. Aksoyek, G. Kabakçı, K. Övünç, L. Tokgözoğlu and F Özmen, "T wave alternans can decrease after coronary revascularization", Angiology, V.51, Iss 8, pp 677 - 687, 2000.

7.2 Uluslararası diğer hakemli dergilerde yayımlanan makaleler.

7.3 Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeedings) basılan bildiriler.

(sadece 2000 ve sonrası dahil edilmiştir)

1. M. Kaan ÇAN , Y. Ziya IDER, “Bias Correction for Phase-Based cr-MREPT Using Low Resolution B1+ Magnitude”, Proceedings of QMRLUCCA: Workshop on MR phase, Magnetic Susceptibility and Electrical Properties Mapping, Lucca, Italy, 16-19 October 2022
2. Yusuf Ider, “crEPT, gEPT, DBar, divergence methods: assumptions and implementation” (invited lecture), ”, Proceedings of QMRLUCCA: Workshop on MR phase, Magnetic Susceptibility and Electrical Properties Mapping, Lucca, Italy, 16-19 October 2022
3. Safa Ozdemir , Efe Ilicak , Carmen Stutz , Mara Berger , Jascha Zapp , Lothar R. Schad , Yusuf Z. Ider , and Frank G. Zöllner, “Fast 3D Undersampled Bloch-Siegert based B Mapping for use in MREPT”, Proc. Intl. Soc. Mag. Reson. Med. 29th Annual Meeting (2021): 3780.
4. Yusuf Ziya Ider and Merve Nur Akyer, “Properties and implementation issues of phase based cr-MRECT for conductivity imaging”, Proc. Intl. Soc. Mag. Reson. Med. 28th Annual Meeting (2020): 3190.
5. Cemre Ariyurek, Yusuf Ziya Ider, and Ergin Atalar, “Improving the SNR and Correcting the Bias in Elastograms in Helmholtz Inversion for MR Elastography”, Proc. Intl. Soc. Mag. Reson. Med. 28th Annual Meeting (2020): 3312.
6. Yusuf Ziya Ider and Celik Boga, “Inverse problem approach to cr-MREPT”, Proc. Intl. Soc. Mag. Reson. Med. 27th Annual Meeting (2019): 5052.
7. Safa Ozdemir and Yusuf Ziya Ider, “Estimation of transceive phase via LORE-GN algorithm and its use in MREPT”, Proc. Intl. Soc. Mag. Reson. Med. 27th Annual Meeting (2019): 5053.
8. Cemre Ariyurek , Bilal Tasdelen , Alireza Sadeghi-Tarakameh , Yusuf Ziya Ider , and Ergin Atalar, “Analysis and Maximization of SNR in MR Elastography Inversion”, Proc. Intl. Soc. Mag. Reson. Med. 27th Annual Meeting (2019): 3962.

9. Yusuf Ziya Ider, “Convection-reaction Electrical Properties Tomography”, Proceedings of 2nd International Workshop on MR-based Electrical Properties Tomography (IMEP2019), March 13-16 2019, Utrecht, The Netherlands
10. Suleman Aijaz Memon, Abdul Waheed, Toygun Başaklar and Yusuf Ziya Ider, “Low-Cost Portable 4-Channel Wireless EEG Data Acquisition System for BCI Applications”, TIPTEKNO18 Tıp teknolojileri Kongresi, 8-10 Kasım 2018, Gazi Magosa, KKTC, To be published in IEEE Xplore.
11. Toygun Başaklar, Yusuf Ziya İder, ve Tuncel Yiğit, “Effects of High Stimulus Presentation Rate on c-VEP based BCIs”, TIPTEKNO18 Tıp teknolojileri Kongresi, 8-10 Kasım 2018, Gazi Magosa, KKTC, To be published in IEEE Xplore.
12. Yusuf Ziya Ider, Celik Boga, and Gulsah Yildiz, "Spatial resolution of Full cr-MREPT: 2D and 3D evaluation", Proceedings of Joint Annual Meeting ISMRM-ESMRMB, Paris, 16-21 June 2018, 5098
13. Safa Ozdemir and Yusuf Ziya Ider, “bSSFP Phase Correction and its use in MREPT”, Proceedings of Joint Annual Meeting ISMRM-ESMRMB, Paris, 16-21 June 2018, 5089
14. Gulsah Yildiz and Yusuf Ziya Ider, "LCF Artifact Elimination in cr-MREPT using Phased-Array Receive Coil", Proceedings of Joint Annual Meeting ISMRM-ESMRMB, Paris, 16-21 June 2018, 5093
15. Cemre Ariyurek, Bilal Tasdelen, Eric Barnhill, Arif Sanli Ergun, Yusuf Ziya Ider, and Ergin Atalar, "Usage of Octahedral Shear Strain Weights in the Inversion of Multifrequency MR Elastography", Proceedings of Joint Annual Meeting ISMRM-ESMRMB, Paris, 16-21 June 2018, 1076
16. Yusuf Ziya Ider, Gokhan Ariturk, and Gulsah Yildiz, “Spatial and Contrast Resolution of Phase Based MREPT”, Proc. Intl. Soc. Mag. Reson. Med. 25 (2017): 3642.
17. Gulsah Yildiz, Gokhan Ariturk, and Yusuf Ziya Ider, “Use of Padding to Eliminate Low Convective Field Artifact in Conductivity Maps Obtained by cr-MREPT”, Proc. Intl. Soc. Mag. Reson. Med. 25 (2017): 1949.
18. Necip Gurler, Yusuf Ziya Ider, "Generalized Phase based Electrical Conductivity Imaging", Intl. Soc. Mag. Reson. Med. 24th annual meeting, Singapore, 7-13 May 2016, Abstract Number: 2991
19. Necip Gurler, Omer Faruk Oran, Hava Donmez Keklikoglu, Yusuf Ziya Ider, "Application of Generalized Phase based Electrical Conductivity Imaging in the Subacute Stage of Hemorrhagic and Ischemic Strokes", Intl. Soc. Mag. Reson. Med. 24th annual meeting, Singapore, 7-13 May 2016, Abstract Number: 2994
20. Gokhan Ariturk, Necip Gurler, Yusuf Ziya Ider, "Investigation and Reduction of the effects of Gibbs ringing in SSFP phase based MR-EPT", Intl. Soc. Mag. Reson. Med. 24th annual meeting, Singapore, 7-13 May 2016, Abstract Number: 2995
21. Cemre Ariyurek, Safa Ozdemir, Arif Sanli Ergun, Yusuf Ziya Ider, and Ergin Atalar, "Experimental Validation of High Shear Wave Displacement at Mode Frequencies in MR Elastography", Intl. Soc. Mag. Reson. Med. 24th annual meeting, Singapore, 7-13 May 2016, Abstract Number: 1960
22. Yusuf Ziya İder, Necip Gürler, Ömer Faruk Oran, “Faz temelli manyetik rezonans elektriksel iletkenlik tomografisinin gürültü performansı”, Abstact No: 0556, Türk Manyetik Rezonans Derneği 20. Yıllık bilimsel toplantısı, Ankara, 21-23 Mayıs 2015
23. Cemre Arıyürek, Yusuf Ziya İder, Necip Gürler, Safa Özdemir, Alp Emek, Arif Sanlı Ergün, Ergin Atalar, “BEYİN MANYETİK REZONANS ELASTOGRAFİSİ'NDEKİ

MAKASLAMA DALGALARININ MODLARI", Abstract No: 0454, Türk Manyetik Rezonans Derneği 20. Yıllık bilimsel toplantısı, Ankara, 21-23 Mayıs 2015

24. Omer Faruk Oran, Necip Gurler, and Yusuf Ziya Ider, "Feasibility of Conductivity Imaging Based on Slice Selection and Readout Gradient Induced Eddy-Currents", Proc. Intl. Soc. Mag. Reson. Med. 23 (2015): 0930.
25. Necip Gurler, Omer Faruk Oran, and Yusuf Ziya Ider, "Combination of Multichannel Receive Data for Local Cr-MREPT", Proc. Intl. Soc. Mag. Reson. Med. 23 (2015): 3298.
26. Omer Faruk Oran, Necip Gurler, and Yusuf Ziya Ider, "A simple point-wise formula for double excitation MREPT suitable for reconstructing boundaries", Proc. Intl. Soc. Mag. Reson. Med. 22 (2014): 3250.
27. Necip Gurler, Omer Faruk Oran, and Yusuf Ziya Ider, "CR-MREPT USING MULTICHANNEL RECEIVE COIL", Proc. Intl. Soc. Mag. Reson. Med. 22 (2014): 3247.
28. Cemre Ariyurek, Yusuf Ziya Ider, Necip Gurler, Safa Ozdemir, Alp Emek, Arif Sanli Ergun, and Ergin Atalar, "MODES OF SHEAR WAVES IN BRAIN MR ELASTOGRAPHY", Proc. Intl. Soc. Mag. Reson. Med. 22 (2014): 4270.
29. Ziya İder, "Imaging of Tissue Impedance using Magnetic Resonance", 3RD MAGNETIC RESONANCE BALKAN OUTREACH PROGRAM 22-24 May, 2014 Ankara
30. Fatih Suleyman Hafalir, Omer Faruk Oran, Necip Gurler, and Yusuf Ziya Ider, MAGNETIC RESONANCE ELECTRICAL PROPERTIES TOMOGRAPHY (MREPT) BASED ON THE SOLUTION OF THE CONVECTION-REACTION EQUATION, Proc. Intl. Soc. Mag. Reson. Med. 21 (2013) 4187.
31. Necip Gurler, Fatih Suleyman Hafalir, Omer Faruk Oran, and Yusuf Ziya Ider, A NEW ACCURATE FEM BASED OPTIMIZATION METHOD FOR BIRDCAGE COIL DESIGN AT HIGH FIELD STRENGTH, Proc. Intl. Soc. Mag. Reson. Med. 21 (2013) 2807.
32. Omer Faruk Oran, Fatih Suleyman Hafalir, Necip Gurler, and Yusuf Ziya Ider, CONVECTION-REACTION EQUATION BASED LOW-FREQUENCY CONDUCTIVITY IMAGING USING READOUT GRADIENT INDUCED EDDY CURRENTS, Proc. Intl. Soc. Mag. Reson. Med. 21 (2013) 4188.
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2. 1986-1992 Manyetik Rezonans Tomografi Sistemi Tasarım ve Geliştirilmesi - UNDP destekli ODTÜ Projesi Yönetici yardımcısı ve araştırmacı. (Design and Development of a Magnetic Resonance Imaging System)
3. 1988-1998 PC tabanlı Elektrokardiyografi sistemi tasarımı, geliştirilmesi, ve üretilmesi - Kardiosis Ltd. Şirketi ortağı ve danışmanı. (Design Development and Manufacturing of PC Based Electrocardiography System)
4. 1992-1996 Modern Sinyal İşleme Teknikleri Kullanılarak Ani Ölüm Riski Teşhisi Amaçlı Yüksek Rezolüsyonlu PC tabanlı Elektrokardiyografi Sistemi Yazılım Tasarımı ve

Geliştirilmesi - TÜBİTAK- EEEAG-022 Araştırma Projesi Yürütücüsü. (Signal Processing for assessment of Risk of Sudden Cardiac Death)

5. 1994-1997 Hızlı Manyetik Rezonans Sistemi Yazılım ve Donanımı Tasarımı ve Geliştirilmesi - TÜBİTAK Projesi Yürütücüsü. (Design and development of Fast Magnetic Resonance Tomography)
6. 1996-1998 Başkent Üniversitesi Biyomedikal Teknolojisi Meslek Yüksek Okulu Kuruluş ve Akademik Danışmanlığı. (Consultant to Başkent University for the establishment of Vocational School of Biomedical Technology)
7. 1998-2000 Manyetik Rezonans tabanlı Uzaysal Ayırma Özelliği Yüksek Öziletkenlik Görüntüleme Sistemi Geliştirilmesi TÜBİTAK EEEAG- 198E006 nolu projesi araştırmacı. (Development of High Resolution Electrical Impedance Tomography using Magnetic Resonance Measurements)
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9. Sept 2002 – February 2003, "İstanbul Emniyet Müdürlüğü Telsiz İhtiyaç Belirleme Projesi", Destekleyen Kuruluş: ASELSAN A.Ş., Proje Bütçesi $45500.-, Araştırmacı. (Investigator in İstanbul Security Department Wireless Systems Planning Project)
10. 1-2-2008 – 31-8-2011, Tubitak 1001 projesi No. 107E260, "Manyetik Rezonans Elektriksel Empedans Tomografi (MREET)ve Manyetik Rezonans Akım Yoğunluğu Görüntüleme (MRAYG)", proje bütçesi TL255000. (Principle Investigator for Turkish Scientific and Research Council 1001 project entitled "Magnetic Resonance Electrical Impedance Tomography and Magnetic Resonance Current Density Imaging", TÜBİTAK-109E260. Project Budget TL255000.-.)
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