

# Prof. BEHÇET MURAT EYÜBOĞLU

## Personal Information

Office Phone: [+90 312 210 2361](tel:+903122102361)

Fax Phone: [+90 312 210 2304](tel:+903122102304)

Email: [meyub@metu.edu.tr](mailto:meyub@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/meyub>

## International Researcher IDs

ScholarID: Gm3pj34AAAAJ

ORCID: 0000-0002-1071-2250

Publons / Web Of Science ResearcherID: ABA-1228-2020

ScopusID: 57208572398

Yoksis Researcher ID: 5592

## Education Information

Doctorate, University of Sheffield, United Kingdom 1985 - 1989

Postgraduate, Middle East Technical University, Faculty of Engineering, Turkey 1983 - 1985

Undergraduate, Middle East Technical University, Faculty of Engineering, Turkey 1979 - 1983

## Foreign Languages

English, C1 Advanced

## Dissertations

Postgraduate, Neuromuscular junction blockade level monitor, Middle East Technical University, Faculty of Engineering, 1985

Doctorate, DEVELOPMENT and APPLICATION of ELECTRICAL IMPEDANCE TOMOGRAPHY FOR THORACIC IMAGING, University of Sheffield, 1985

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2001 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 1998 - 2001

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1995 - 1998

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1995

## Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2018 - Continues

Middle East Technical University, Faculty of Engineering, 2012 - 2015

Middle East Technical University, Faculty of Engineering, 2001 - 2002

## Courses

Analog Elektronik, Undergraduate, 2020 - 2021

Tıbbi Görüntüleme, Postgraduate, 2019 - 2020

Semiconductor Devices and Modelling, Undergraduate, 2019 - 2020

Biyoelektrik ve Biyomanyetik, Postgraduate, 2020 - 2021

PHYSIOLOGICAL CONTROL SYSTEMS ANALYSIS, Postgraduate, 2018 - 2019

ENGINEERING DESIGN II, Undergraduate, 2018 - 2019

INTRODUCTION TO MEDICAL IMAGING, Undergraduate, 2019 - 2020

Introduction to Biomedical Engineering, Postgraduate, 2018 - 2019

Engineering Design I , Undergraduate, 2019 - 2020

## Supervised Theses

Eyüboğlu B. M., Improving current density recovery and flux density imaging in diffusion tensor magnetic resonance electrical impedance tomography applications, Postgraduate, B.CAN(Student), 2021

Eyüboğlu B. M., Sensitivity analysis and multi contrast imaging of magnetic resonance magnetohydrodynamic flow velocimetry at 3 Tesla, Postgraduate, M.ŞİŞMAN(Student), 2021

Eyüboğlu B. M., Diffusion tensor magnetic resonance electrical impedance tomography (DT-MREIT) and its expansion to multi-physics multi-contrast magnetic resonance imaging, Doctorate, M.SADIGHI(Student), 2021

EYÜBOĞLU B. M., Mobile sleep apnea detection and monitoring based on thermocouple and pulse oximeter sensors, Postgraduate, D.DEMİRKOL(Student), 2018

EYÜBOĞLU B. M., WEBER G. W., Computer-aided diagnosis of alzheimer's disease and mild cognitive impairment with MARS/CMARS classification using structural MR images, Doctorate, A.Çevik(Student), 2017

EYÜBOĞLU B. M., Computer-aided diagnosis of Alzheimer's disease and mild cognitive impairment with MARS/CMARS classification using structural MR images, Doctorate, A.ÇEVİK(Student), 2017

EYÜBOĞLU B. M., Induced current magnetic resonance electrical impedance tomography (ICMREIT) with low frequency switching of gradient fields, Doctorate, H.HÜSEYİN(Student), 2017

EYÜBOĞLU B. M., Dual current injection-magnetic resonance electrical impedance tomography using spatial modulation of magnetization, Postgraduate, N.AMEEN(Student), 2016

EYÜBOĞLU B. M., Magnetic resonance electrical impedance tomography based on MRI-SPAMM, Postgraduate, K.SÜMSER(Student), 2016

EYÜBOĞLU B. M., A programmable current source for magnetic resonance current density imaging (MRCDI) at 3 Tesla, Postgraduate, C.GÖKSU(Student), 2014

EYÜBOĞLU B. M., Magnetic resonance conductivity tensor imaging (MRCTI) at 3 tesla, Postgraduate, M.SADIGHI(Student), 2014

EYÜBOĞLU B. M., Design and implementation of a device to control a robotic arm by EMG signal, Postgraduate, G.KANDEMİR(Student), 2013

EYÜBOĞLU B. M., Eyüboğlu B., A medical image processing and analysis framework, Postgraduate, A.Çevik(Student), 2011

EYÜBOĞLU B. M., Eyüboğlu B., A 3-D vascular connectivity tracking and vascular network extraction toolkit, Postgraduate, K.Kara(Student), 2011

EYÜBOĞLU B. M., Magnetic resonance current density imaging using one component of magnetic flux density, Postgraduate, A.Ersöz(Student), 2010

EYÜBOĞLU B. M., A labview interface to integrate magnetic resonance imaging (MRI) simulator with system control and its application to regional magnetic resonance electrical impedance tomography (MREIT) reconstruction, Postgraduate, T.Topal(Student), 2010

EYÜBOĞLU B. M., High resolution imaging of anisotropic conductivity with magnetic resonance electrical impedance tomography (mr-eit), Doctorate, E.Değirmenci(Student), 2010

EYÜBOĞLU B. M., Analysis of magnetic resonance imaging in inhomogenous main magnetic field, Doctorate, V.Emre(Student), 2009

EYÜBOĞLU B. M., Performance evaluation of magnetic flux density based magnetic resonance electrical impedance tomography reconstruction algorithms, Postgraduate, G.Eker(Student), 2009

EYÜBOĞLU B. M., Performance evaluation of current density based magnetic resonance electrical impedance tomography reconstruction algorithms (mr-eit), Postgraduate, R.Boyacıoğlu(Student), 2009

EYÜBOĞLU B. M., Optimum current injection strategy for magnetic resonance electrical impedance tomography, Doctorate, H.Altunel(Student), 2008

EYÜBOĞLU B. M., Implementation and comparison of reconstruction algorithms for magnetic resonance-electric impedance tomography (mr-eit), Postgraduate, D.Martin(Student), 2007

EYÜBOĞLU B. M., Permanent magnet design and image reconstruction algorithm for magnetic resonance imaging in inhomogeneous magnetic fields, Postgraduate, H.Yiğitler(Student), 2006

EYÜBOĞLU B. M., An integrated, dynamic model for cardiovascular and pulmonary systems, Postgraduate, N.A(Student), 2006

EYÜBOĞLU B. M., Design and implementation of labview based data acquisition and image reconstruction environment for Metu-mr1 system, Postgraduate, M.Eşref(Student), 2005

EYÜBOĞLU B. M., Equipotential projection based magnetic resonance electrical impedance tomography (mr-eit) for high resolution conductivity imaging, Postgraduate, M.Sinan(Student), 2003

EYÜBOĞLU B. M., Eyüboğlu B., Development of reconstruction algorithms for magnetic resonance-electrical impedance tomography and experimental realization, Doctorate, Ö.Birgöl(Student), 2002

## **Jury Memberships**

Doctoral Examination, Doctoral Examination, Middle East Technical University, January, 2021

Doctoral Examination, Doctoral Examination, Middle East Technical University, January, 2021

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, November, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İhsan Doğramacı Bilkent Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İhsan Doğramacı Bilkent Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, November, 2019

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, May, 2019

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, May, 2018

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- SNR and total acquisition time analysis of multi-echo FLASH pulse sequence for current density imaging**  
Sadighi M., Şişman M., Eyüboğlu B. M.  
Journal of Magnetic Resonance, vol.333, 2021 (SCI-Expanded)

- II. **Low-frequency conductivity tensor imaging with a single current injection using DT-MREIT**  
Sadighi M., ŞİŞMAN M., Acikgoz B. C., Eroglu H. H., EYÜBOĞLU B. M.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.66, no.5, 2021 (SCI-Expanded)
- III. **Magnetohydrodynamic flow imaging of ionic solutions using electrical current injection and MR phase measurements**  
Eroglu H. H., Sadighi M., EYÜBOĞLU B. M.  
JOURNAL OF MAGNETIC RESONANCE, vol.303, pp.128-137, 2019 (SCI-Expanded)
- IV. **Iterative sensitivity matrix-based magnetic resonance conductivity tensor imaging**  
EYÜBOĞLU B. M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.1, pp.24-36, 2019 (SCI-Expanded)
- V. **Induced Current Magnetic Resonance Electrical Conductivity Imaging With Oscillating Gradients**  
Eroglu H. H., Sadighi M., EYÜBOĞLU B. M.  
IEEE TRANSACTIONS ON MEDICAL IMAGING, vol.37, no.7, pp.1606-1617, 2018 (SCI-Expanded)
- VI. **Voxel-MARS: a method for early detection of Alzheimer's disease by classification of structural brain MRI**  
Cevik A., Weber G., Eyüboğlu B. M., Oguz K. K.  
ANNALS OF OPERATIONS RESEARCH, vol.258, no.1, pp.31-57, 2017 (SCI-Expanded)
- VII. **Analysis of reconstruction performance of magnetic resonance conductivity tensor imaging (MRCTI) using simulated measurements**  
DEĞİRMENCİ E., EYÜBOĞLU B. M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.1, pp.474-483, 2017 (SCI-Expanded)
- VIII. **Two alternatives for magnetic resonance electrical impedance tomography: injected or induced current**  
Eroglu H. H., EYÜBOĞLU B. M.  
PHYSIOLOGICAL MEASUREMENT, vol.37, no.11, pp.2024-2049, 2016 (SCI-Expanded)
- IX. **Practical Realization of Magnetic Resonance Conductivity Tensor Imaging (MRCTI)**  
DEĞİRMENCİ E., EYÜBOĞLU B. M.  
IEEE TRANSACTIONS ON MEDICAL IMAGING, vol.32, no.3, pp.601-608, 2013 (SCI-Expanded)
- X. **Magnetic resonance current density imaging using one component of magnetic flux density**  
Ersoz A., EYÜBOĞLU B. M.  
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.21, no.2, pp.184-196, 2013 (SCI-Expanded)
- XI. **MREIT experiments with 200  $\mu$ A injected currents: a feasibility study using two reconstruction algorithms, SMM and harmonic  $\langle i \rangle B_{\langle Z \rangle} \langle /i \rangle$**   
Arpinar V. E., Hamamura M. J., EYÜBOĞLU B. M., Muftuler L. T.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.57, no.13, pp.4245-4261, 2012 (SCI-Expanded)
- XII. **Image Reconstruction in Magnetic Resonance Conductivity Tensor Imaging (MRCTI)**  
DEĞİRMENCİ E., EYÜBOĞLU B. M.  
IEEE TRANSACTIONS ON MEDICAL IMAGING, vol.31, no.3, pp.525-532, 2012 (SCI-Expanded)
- XIII. **Anisotropic conductivity imaging with MREIT using equipotential projection algorithm**  
DEĞİRMENCİ E., EYÜBOĞLU B. M.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.52, no.24, pp.7229-7242, 2007 (SCI-Expanded)
- XIV. **Distinguishability for magnetic resonance-electrical impedance tomography (MR-EIT)**  
Altunel H., Eyuboglu B. M., Koksak A.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.52, no.2, pp.375-387, 2007 (SCI-Expanded)
- XV. **Equipotential projection-based magnetic resonance electrical impedance tomography and experimental realization**  
Ozdemir M., Eyuboglu B., Ozbek O.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.49, no.20, pp.4765-4783, 2004 (SCI-Expanded)
- XVI. **Experimental results for 2D magnetic resonance electrical impedance tomography (MR-EIT) using**

**magnetic flux density in one direction**

Birgul O., Eyuboglu B., Ider Y.

PHYSICS IN MEDICINE AND BIOLOGY, vol.48, no.21, pp.3485-3504, 2003 (SCI-Expanded)

- XVII. **Current constrained voltage scaled reconstruction (CCVSR) algorithm for MR-EIT and its performance with different probing current patterns**  
Birgul O., Eyuboglu B., Ider Y.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.48, no.5, pp.653-671, 2003 (SCI-Expanded)
- XVIII. **A quasi-static analysis for a class of induced-current EIT systems using discrete coils**  
Koksal A., Eyuboglu B., Demirbilek M.  
IEEE TRANSACTIONS ON MEDICAL IMAGING, vol.21, no.6, pp.688-694, 2002 (SCI-Expanded)
- XIX. **Tissue resistivity estimation in the presence of positional and geometrical uncertainties**  
Baysal U., Eyuboglu B.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.45, no.8, pp.2373-2388, 2000 (SCI-Expanded)
- XX. **Distinguishability analysis of an induced current EIT system using discrete coils**  
Eyuboglu B., Koksal A., Demirbilek M.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.45, no.7, pp.1997-2009, 2000 (SCI-Expanded)
- XXI. **Use of a priori information in estimating tissue resistivities-application to measured data**  
Baysal U., Eyuboglu B.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.44, no.7, pp.1677-1689, 1999 (SCI-Expanded)
- XXII. **Use of a priori information in estimating tissue resistivities - a simulation study**  
Baysal U., Eyuboglu B.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.43, no.12, pp.3589-3606, 1998 (SCI-Expanded)
- XXIII. **Imaging of electric current density with MR imaging**  
EYÜBOĞLU B. M., Reddy R., Leigh J.  
RADIOLOGY, pp.368, 1996 (SCI-Expanded)
- XXIV. **An interleaved drive electrical impedance tomography image reconstruction algorithm**  
EYÜBOĞLU B. M.  
PHYSIOLOGICAL MEASUREMENT, vol.17, 1996 (SCI-Expanded)
- XXV. **DETERMINATION OF OPTIMUM INJECTED CURRENT PATTERNS IN ELECTRICAL-IMPEDANCE TOMOGRAPHY**  
KOKSAL A., EYUBOĞLU B. M.  
PHYSIOLOGICAL MEASUREMENT, vol.16, 1995 (SCI-Expanded)
- XXVI. **A METHOD FOR COMPARATIVE-EVALUATION OF EIT ALGORITHMS USING A STANDARD DATA SET**  
IDER Y., EYUBOĞLU B. M., KUZUOĞLU M., LEBLEBICIOĞLU K., BAYSAL U., CAGLAR B., BIRGUL O.  
PHYSIOLOGICAL MEASUREMENT, 1995 (SCI-Expanded)
- XXVII. **APPLICATION OF ELECTRICAL-IMPEDANCE TOMOGRAPHY IN DIAGNOSIS OF EMPHYSEMA - A CLINICAL-STUDY**  
EYUBOĞLU B. M., ONER A., BAYSAL U., BIBER C., KEYF A., YILMAZ U., ERDOĞAN Y.  
PHYSIOLOGICAL MEASUREMENT, vol.16, 1995 (SCI-Expanded)
- XXVIII. **IMPEDANCE TO DEFIBRILLATION COUNTERSHOCK - DOES AN OPTIMAL IMPEDANCE EXIST**  
KENKNIGHT B., EYÜBOĞLU B. M., IDEKER R.  
PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY, vol.18, no.11, pp.2068-2087, 1995 (SCI-Expanded)
- XXIX. **ESTIMATION OF TISSUE RESISTIVITIES FROM MULTIPLE-ELECTRODE IMPEDANCE MEASUREMENTS**  
EYUBOĞLU B. M., PILKINGTON T., WOLF P.  
PHYSICS IN MEDICINE AND BIOLOGY, vol.39, no.1, pp.1-17, 1994 (SCI-Expanded)
- XXX. **INVIVO IMAGING OF CARDIAC RELATED IMPEDANCE CHANGES**  
EYUBOĞLU B. M., BROWN B., BARBER D.  
IEEE ENGINEERING IN MEDICINE AND BIOLOGY MAGAZINE, vol.8, no.1, pp.39-45, 1989 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Magnetic resonance - electrical impedance tomography**  
EYÜBOĞLU B. M.  
WILEY - Encyclopedia of Biomedical Engineering, pp.2154-2162, 2006 (Peer-Reviewed Journal)
- II. **Electrical impedance plethysmography**  
EYÜBOĞLU B. M.  
Wiley Encyclopedia of Biomedical Engineering, 2006 (Peer-Reviewed Journal)
- III. **Electrical impedance imaging - injected current**  
EYÜBOĞLU B. M.  
WILEY - Encyclopedia of Biomedical Engineering, pp.1195-1205, 2006 (Peer-Reviewed Journal)
- IV. **Magnetic resonance current density imaging**  
EYÜBOĞLU B. M.  
Encyclopedia of Biomedical Engineering, pp.2147-2153, 2006 (Peer-Reviewed Journal)
- V. **Imaging electrical current density using nuclear magnetic resonance**  
EYÜBOĞLU B. M., REDDY R., LEIGH J. S.  
ELEKTRİK, vol.6, pp.201-214, 1998 (Peer-Reviewed Journal)
- VI. **Injected current patterns for electrical impedance imaging of the human thorax**  
Eyüboğlu B. M., Hampson B. M., Pilkington T. C.  
Journal of Clinical Engineering, vol.18, no.3, pp.225-234, 1993 (Scopus)
- VII. **Methods of cardiac gating applied potential tomography**  
Eyüboğlu B. M., Brown B.  
Clinical Physics and Physiological Measurement, vol.9, no.4A, pp.43-48, 1988 (Scopus)
- VIII. **Problems of cardiac output determination from electrical impedance tomography scans**  
Eyüboğlu B. M., Brown B., Barber D.  
Clinical Physics and Physiological Measurement, vol.9, no.4A, pp.71-77, 1988 (Scopus)
- IX. **Localisation of cardiac related impedance changes in the thorax**  
EYÜBOĞLU B. M., Brown B., Barber D., Seager A.  
Clinical Physics and Physiological Measurement, vol.8, no.4A, pp.167-173, 1987 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Simultaneous Magnetic Resonance Magnetohydrodynamic Flow Velocity and Diffusion Tensor Imaging**  
Şişman M., Sadighi M., Eyüboğlu B. M.  
ISMRM & SMRT Annual Meeting & Exhibition, Toronto, Canada, 15 - 20 May 2021, vol.1, pp.1-4
- II. **Experimental Evaluation of Spin Echo based Magnetic Resonance Magnetohydrodynamic Flow Velocimetry**  
Şişman M., Sadighi M., Eroğlu H. H., Eyüboğlu B. M.  
ISMRM & SMRT Annual Meeting & Exhibition, Toronto, Canada, 15 - 20 May 2021, vol.1, pp.1-4
- III. **Multi-Physics Multi-Contrast Magnetic Resonance Imaging**  
Eyüboğlu B. M., Sadighi M.  
ISMRM & SMRT Annual Meeting & Exhibition, 15 - 20 May 2021, pp.1-4
- IV. **Experimental Realization of Single Current Diffusion Tensor Magnetic Resonance Electrical Impedance Tomography**  
Sadighi M., Şişman M., Açıkgöz B. C., Eyüboğlu B. M.  
ISMRM & SMRT Virtual Conference & Exhibition, Sydney, Australia, 8 - 14 August 2020, vol.1, no.1, pp.1-3
- V. **Single Current Diffusion Tensor Magnetic Resonance Electrical Impedance Tomography: A Simulation Study**  
Sadighi M., Şişman M., Açıkgöz B. C., Eyüboğlu B. M.

ISMRM & SMRT Virtual Conference & Exhibition, Sydney, Australia, 8 - 14 August 2020, vol.1, no.1, pp.1-3

- VI. **Manyetik Rezonans Tabanlı Elektrik Akımı ve İletkenlik Görüntüleme**  
Eyüboğlu B. M.  
TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Antalya, Turkey, 6 - 08 November 2019, pp.1
- VII. **Manyetik Rezonans Teknikleri Kullanarak Magnetohidrodinamik Akış Görüntüleme**  
Eroğlu H. H., Sadıghi M., Eyüboğlu B. M.  
TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Antalya, Turkey, 6 - 08 November 2019, pp.1-4
- VIII. **Manyetik Rezonans Akım Yoğunluğu Görüntüleme için Darbe Dizisi Gürültü Analizi**  
Açıkgöz B. C., Sadıghi M., Şişman M., Eyüboğlu B. M.  
TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Antalya, Turkey, 6 - 08 November 2019, pp.1-7
- IX. **Eşzamanlı Difüzyon Tensörü ve Manyetik Rezonans Akım Yoğunluğu Görüntüleme**  
Sadıghi M., Açıkgöz B. C., Şişman M., Eyüboğlu B. M.  
TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Antalya, Turkey, 6 - 08 November 2019, pp.1-5
- X. **Effect of intense utilization of gradients in magnetic resonance current density imaging and its removal**  
SADIGHI M., Eroğlu H. H., EYÜBOĞLU B. M.  
ISMRM 27th Annual Meeting Exhibition 2019, Montreal, Canada, 11 - 16 May 2019, vol.1, pp.1-4
- XI. **Magnetohydrodynamic Flow Imaging Using Spin-Echo Pulse Sequence**  
Eroğlu H. H., SADIGHI M., EYÜBOĞLU B. M.  
2019 27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, Turkey, 24 - 26 April 2019
- XII. **Imaging anisotropic conductivity with induced current magnetic resonance electrical impedance tomography (ICMREIT)**  
EROĞLU H. H., SADİGHİ M., EYÜBOĞLU B. M.  
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.61
- XIII. **Diffusion tensor magnetic resonance electrical impedance tomography versus magnetic resonance conductivity tensor imaging**  
Sadighi M., Öktem S. F., Eyüboğlu B. M.  
International Society of Magnetic Resonance in Medicine ESMRMB Joint Annual Meeting, Paris, France, 16 - 21 June 2018, vol.26, pp.1-4
- XIV. **Low frequency magnetic resonance conductivity imaging by means of oscillating gradient fields**  
EROĞLU H. H., SADİGHİ M., EYÜBOĞLU B. M.  
Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Paris, France, 16 - 21 June 2018, vol.26, pp.2287
- XV. **Low frequency magnetic resonance conductivity imaging by means of oscillating gradient fields**  
Eroğlu H. H., SADIGHI M., EYÜBOĞLU B. M.  
Int. Society of Magnetic Resonance in Medicine and ESMRM Joint Annual Meeting 2018, Paris, France, 16 - 21 June 2018, vol.26, pp.1-4
- XVI. **Front Matter: Volume 10216**  
ÇAKMAK DEMİRKOL D., EYÜBOĞLU B. M.  
SPIE Commercial Scientific Sensing and Imaging, Anaheim, California, United States, United States Of America, 9 - 10 April 2017, vol.10216
- XVII. **SPAMM Based Dual Current Injection to Accelerate Data Acquisition in Magnetic Resonance Electrical Impedance Tomography**  
NAJÍ N., SÜMSER K., EYÜBOĞLU B. M.  
ISMRM 25th Annual Meeting Exhibition, Honolulu, HI, USA, 22 - 27 April 2017
- XVIII. **Portable obstructive sleep apnea detection and mobile monitoring**  
Cakmak D. D., EYÜBOĞLU B. M.  
Conference on Smart Biomedical and Physiological Sensor Technology XIV, California, United States Of America, 9 - 10 April 2017, vol.10216
- XIX. **MRI SPAMM based magnetic resonance electrical impedance tomography**

SÜMSER K., Naji N., SADIGHI M., EROĞLU H. H., EYÜBOĞLU B. M.

ISMRM 24th Annual Meeting & Exhibition, Singapore, Singapore, 7 - 13 May 2016

- XX. **Enhancing induced current magnetic resonance electrical impedance tomography ICMREIT image reconstruction**  
NAJI N., EROĞLU H. H., SÜMSER K., SADIGHI M., EYÜBOĞLU B. M.  
N. A. Naji, H. H. Eroğlu, K. Sümser, M. Sadighi, M. Eyüboğlu, "Enhancing induced current magnetic resonance electrical impedance tomography (ICMREIT) image reconstruction" Proc. of the 12th IASTED International Conference Biomedical Engineering (BioMed 2016), Innsbruck, Austria, 2016, pp. 149-154., Innsbruck, Austria, 15 - 17 February 2016, pp.149-154
- XXI. **Experimental Realization of Induced Current Magnetic Resonance Current Density Imaging**  
Eroglu H. H., Sadighi M., Sumsner K., Naji N., EYÜBOĞLU B. M.  
37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.614-617
- XXII. **J-based Magnetic Resonance Conductivity Tensor Imaging (MRCTI) at 3 T**  
Sadighi M., Goksu C., EYÜBOĞLU B. M.  
36th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Illinois, United States Of America, 26 - 30 August 2014, pp.1139-1142
- XXIII. **Realization of magnetic resonance current density imaging at 3 Tesla,**  
Göksu C., SADIGHI M., EYÜBOĞLU B. M.  
IEEE Engineering in Medicine and Biology Society (EMBC'14), Chicago, Illinois, U.S.A., 26 - 30 August 2014, pp.1115-1118
- XXIV. **A programmable current source for MRCDI & MREIT applications**  
Göksu C., EYÜBOĞLU B. M., Eroğlu H.  
13th Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, Sevilla, Spain, 25 - 28 September 2013, vol.41, pp.198-201
- XXV. **Mumford-Shah based unsupervised segmentation of brain tissue on MR images**  
Cevik A., Eyuboglu B. M.  
13th Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, Sevilla, Spain, 25 - 28 September 2013, vol.41, pp.265-268
- XXVI. **Design and implementation of a bipolar current source for MREIT applications**  
Eroglu H. H., EYÜBOĞLU B. M., Göksu C.  
13th Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, Sevilla, Spain, 25 - 28 September 2013, vol.41, pp.161-164
- XXVII. **Induced Current Magnetic Resonance Electrical Impedance Tomography with z-Gradient Coil**  
Eroglu H. H., Eyuboglu M.  
36th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Illinois, United States Of America, 26 - 30 August 2014, pp.1143-1146
- XXVIII. **Induced Current Magnetic Resonance Electrical Impedance Tomography with z-Gradient Coil**  
Eroğlu H. H., EYÜBOĞLU B. M.  
36TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY (EMBC), 26 - 30 August 2014
- XXIX. **Magnetic resonance current density imaging using one component of magnetic flux density: An experimental study**  
ERSÖZ A. B., EYÜBOĞLU B. M.  
12th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2010, Chalkidiki, Greece, 27 - 30 May 2010, vol.29, pp.248-251
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## Supported Projects

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EYÜBOĞLU B. M., ÇELİK B., Project Supported by Higher Education Institutions, İLETKEN GÖRÜNTÜLEME DARBE DİZİLERİNİN HASSASİYET ANALİZİ, 2018 - 2025

EYÜBOĞLU B. M., TUBITAK Project, Eşzamanlı Manyetik Rezonans Difüzyon Tensörü Ve İletkenlik Tensörü Görüntüleme, 2017 - 2020

Yılmaz A. O., Eyüboğlu B. M., TUBITAK Project, ga2tat - Giyilebilir, Akustik Algılama Tabanlı Astım Takip ve Karar Destek Sistemi , 2017 - 2019

EYÜBOĞLU B. M., Project Supported by Higher Education Institutions, FELÇLİ KASLARIN İŞLEVSEL UYARIMI İÇİN CİHAZ TASARIMI VE GERÇEKLENMESİ, 2017 - 2017

EYÜBOĞLU B. M., Project Supported by Higher Education Institutions, BURGAÇ AKIMI MANYETİK REZONANS İLETKENLİK TENSÖRÜ GÖRÜNTÜLEME, 2017 - 2017

EYÜBOĞLU B. M., TUBITAK Project, AIMREET Akım İndüklemeli Manyetik Rezonans Elektriksel Empedans Tomografisi 113E979 Numaralı TÜBİTAK 1003 Öncelikli Alanlar Projesi, 2014 - 2016

EYÜBOĞLU B. M., TUBITAK Project, Aimreet - Akım İndüklemeli Manyetik Rezonans Elektriksel Empedans Tomografisi, 2014 - 2016

EYÜBOĞLU B. M., Project Supported by Other Private Institutions, UZAKTAN HASTA TAKİBİ ve KARAR DESTEK İLETİŞİM SİSTEMİ7130983 nolu TÜBİTAK TEYDEB 1507 KOBİ Ar Ge Başlangıç Destek Programı Projesi, 2014 - 2016

EYÜBOĞLU B. M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

EYÜBOĞLU B. M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

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EYÜBOĞLU B. M., TUBİTAK Project, Manyetik Rezonans Görüntüleme (Mrg) Sistemiyle Uyumlu, Programlanabilir Akım Kaynağı Geliştirilmesi, 2013 - 2014

EYÜBOĞLU B. M., ÇEVİK A., Project Supported by Higher Education Institutions, NÖROLOJİK DEJENERATİF HASTALIKLARIN GÖRÜNTÜ REHBERLİĞİNDE TEDAVİSİ İÇİN TIBBİ ZENGİNLEŞTİRİLMİŞ GERÇEKLİK UYGULAMASI, 2013 - 2013

EYÜBOĞLU B. M., EROĞLU H. H., Project Supported by Higher Education Institutions, BİR FONKSİYONEL ELEKTRİKSEL STİMULASYON SİSTEMİNİN TASARIMI VE DENEYSEL GERÇEKLENMESİ, 2013 - 2013

EYÜBOĞLU B. M., SADIGHI M., Project Supported by Higher Education Institutions, MANYETİK REZONANS ELEKTRİKSEL ÖZELLİKLER TOMOGRAFİSİ İÇİN PROGRAMLANABİLİR AKIM KAYNAĞI TASARIMI, 2013 - 2013

EYÜBOĞLU B. M., GÖKSU C., Project Supported by Higher Education Institutions, MANYETİK REZONANS ELEKTRİKSEL ÖZELLİKLER TOMOGRAFİSİ İÇİN PROGRAMLANABİLİR AKIM KAYNAĞI TASARIMI, 2013 - 2013

EYÜBOĞLU B. M., KOÇ Ö., Project Supported by Higher Education Institutions, TIBBİ GİRİŞİMSEL UYGULAMALAR İÇİN NAVİGASYON SİSTEMİ, 2013 - 2013

EYÜBOĞLU B. M., TUBİTAK Project, Manyetik Rezonans Elektriksel Empedans Tomografisinde Veri Toplama Ve Görüntü Geriçatım Yöntemlerinin Eniyilenmesi Ve Yönbağımlı İletkenlik Görüntülemenin Gerçekleştirilmesi, 2007 - 2010

## Patent

Eyüboğlu B. M., Tek Kutuplu Kesit Seçici Gradyan Darbe Tabanlı Akım İndüklemeli Manyetik Rezonans Elektriksel Empedans Tomografisi (AİMREET) Darbe Dizini, Patent, CHAPTER G Physics, Standard Registration, 2022

Eyüboğlu B. M., Çift Kutuplu Gradyan Darbe Tabanlı Akım İndüklemeli Manyetik Rezonans Elektriksel Empedans Tomografisi (AİMREET) Darbe Dizini, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2017 07410 B , Standard Registration, 2022

Eyüboğlu B. M., Spin etiketli manyetik rezonans akım yoğunluğu ve elektriksel empedans görüntüleme, Patent, CHAPTER G Physics, The Invention Registration Number: TR201513995B , Standard Registration, 2019

Eyüboğlu B. M., Magnetic Resonance – Electrical Impedance Tomography, Patent, CHAPTER G Physics, The Invention Registration Number: U.S. 6,397,095 B1 , Standard Registration, 2002

## Activities in Scientific Journals

EMO Bilimsel Dergi, Editor, 2012 - 2020

Turkish Journal Of Electrical Engineering And Computer Sciences, Editor, 2017 - 2018

## Memberships / Tasks in Scientific Organizations

UMRAM Ulusal Manyetik Rezonans Araştırma Merkezi, Board Member, 2019 - Continues, Turkey

ISMRRM - International Society of Magnetic Resonance in Medicine, Member, 2016 - Continues, United States Of America

Institute of Physics - Elected Fellow , Principal Member, 2004 - Continues, United Kingdom

TMMOB - Elektrik Mühendisleri Odası, Member, 1983 - Continues, Turkey

TEYDEB-Çağrı Programı Danışma Kurulu, Member of Advisory Board, 2020 - 2020, Turkey

Institute of Electrical and Electronics Engineers, Member, 1982 - 2015, United States Of America

## Scientific Refereeing

TUBİTAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, October

2021

TUBITAK Project, SAYEM FAZ II, Middle East Technical University, Turkey, September 2021

IEEE TRANSACTIONS ON MEDICAL IMAGING, SCI Journal, March 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2019

TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, June 2019

INVERSE PROBLEMS, SCI Journal, May 2019

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, March 2019

## Scientific Consultations

UMRAM Ulusal Manyetik Rezonans Araştırma Merkezi, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2021 - Continues

UMRAM Ulusal Manyetik Rezonans Araştırma Merkezi, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2019 - Continues

Ulusal Manyetik Rezonans Araştırma Merkezi, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2018 - Continues

## Metrics

Publication: 109

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H-Index (Scopus): 13

## Congress and Symposium Activities

TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Invited Speaker, Antalya, Turkey, 2019

TÜRKRAD 2019 Türk Radyoloji Derneği Radyoloji Kongresi, Session Moderator, Antalya, Turkey, 2019

## Non Academic Experience

TÜBİTAK, ÇPDK - Çağrı Programı Danışma Kurulu Üyesi

TÜBİTAK, İzleyici Hakem

TÜBİTAK, Proje Değerlendirme Dış Hakem

TÜBİTAK, Proje Değerlendirme Paneli Üyeliği

TÜBİTAK, Proje Değerlendirme Dış Hakem

TTGV, İzleyici Hakem

TÜBİTAK, Proje Değerlendirme Paneli Üyeliği

TÜBİTAK, ÇPDK - Çağrı Programı Danışma Kurulu Üyesi

KOSGEB, İZLEYİCİ HAKEM