

● Personal

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● Education

1979.03 – 1983.02	BS, Department of Electronics Engineering, Seoul National University
1983.03 – 1985.02	MS, Department of Electronics Engineering, Seoul National University
1986.08 – 1990.08	PhD, Department of Electrical and Computer Engineering, University of Wisconsin-Madison

● Appointment

1983.03 – 1985.02	Researcher, Department of Biomedical Engineering, Seoul National University Hospital
1985.08 – 1986.02	Military service
1986.08 – 1990.08	Research Assistant, Department of Electrical and Computer Engineering, University of Wisconsin-Madison
1990.09 – 1994.09	Assistant Professor, Department of Biomedical Engineering, College of Medicine, Konkuk University
1994.10 – 1999.08	Associate Professor, Department of Biomedical Engineering, College of Medicine, Konkuk University
1998.01 – 1999.06	Honorary Fellow, Department of Electrical and Computer Engineering, University of Wisconsin-Madison
1998.09 – 1999.06	Consultant, Spacelabs Burdick, Inc.
1999.09 – 2015.02	Professor, Department of Biomedical Engineering, College of Electronics and Information, Kyung Hee University
2002.07 – present	Director, Impedance Imaging Research Center, Kyung Hee University

2012.01 – 2013.11	Director, Center for Strategic Planning, Kyung Hee University
2015.03 – present	Professor, Department of Biomedical Engineering, College of Medicine, Kyung Hee University

● Membership

1983 – present	Korea Society of Medical and Biological Engineering (KOSOMBE)
1983 – present	Institute of Electronics and Information Engineering (IEIE)
1983 – present	IEEE Engineering in Medicine and Biology Society (EMBS)
2012 – present	International Society of Magnetic Resonance in Medicine (ISMRM)

● Extramural Academic Activity

2003 – 2006	Program Chair, World Congress on Medical Physics and Biomedical Engineering (WC2006)
2004 – 2011	Conference Co-chair, International Conference on Electrical Bioimpedance and Electrical Impedance Tomography
2009 – 2016	International Advisory Board, Physiological Measurement
2011 – 2013	AdCom Member, IEEE Engineering in Medicine and Biology Society (EMBS)
2013 – present	Associate Editor, IEEE Transactions on Biomedical Engineering
2014 – 2015	Program Chair, International Biomedical Engineering Conference (IBEC)
2015 – 2017	Program Chair, 39 th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC17)
2016 – present	Vice President, International Society for Electrical Bioimpedance (ISEBI)

● Teaching

Undergraduate Courses	Graduate Courses
<ul style="list-style-type: none"> • Electromagnetics • Electric Circuit • Electronic Circuit • Medical Instrumentation • Medical Device Design 	<ul style="list-style-type: none"> • Biosensor • Analog Signal Processing • Inverse Problem • Bioelectromagnetism and Bioimpedance • Impedance Imaging System

● Research Topic

- Bioelectromagnetism and bioimpedance
- Electrical impedance tomography (EIT)
- Magnetic resonance electrical impedance tomography (MREIT)
- Conductivity tensor imaging (CTI) using MRI
- Biomedical instrumentation (sensor, signal measurement and signal processing)
- Minimally invasive therapy (RF ablation, tDCS, electroporation)

● Research Grant

Patient monitoring system Digital EEG EMG biofeedback system Telehealth system	Samsung Electronics Dr. Lee HMT KICT	1990 – 2001
Impedance Imaging Research Center (IIRC)	National Research Foundation (NRF)	2002.07 – 2011.02
Ion Conduction Imaging Research Group	National Research Foundation (NRF)	2010.04 – 2014.02
Development of non-grid type area pressure sensing system based on multi-frequency electrical impedance tomography via development of nanoweb based piezo-electric/capacitive hybrid fabric sensor	Korea Evaluation Institute of Industrial Technology (KEIT)	2013.11 – 2018.10

Simultaneous measurement of bioelectromagnetic fields and material property for direct neural activity Imaging	National Research Foundation (NRF)	2014.05 – 2020.04
Regional lung ventilation and perfusion monitoring system for personalized lung protective ventilation	Korea Health Industry Development Institute (KHIDI)	2014.06 – 2019.04

● Book

- Seo J K, Woo E J, Katcher U and Wang Y, Electromagnetic Tissue Properties MRI, Imperial College Press, 2014.
- Seo J K and Woo E J, Nonlinear Inverse Problems in Imaging, Wiley, 2013.
- Seo J K and Woo E J, Mathematical Modeling in Biomedical Imaging in Lecture Notes in Mathematics, (ed) Ammari H, Springer, 2009.
- Seo J K, Kwon O and Woo E J, Electrical Impedance Tomography for Imaging and Lesion Estimation in Medical Imaging Systems Technology: Modalities, (ed.) Leondes C T, World Scientific, 2005.
- Woo E J, Seo J K and Lee S Y, Magnetic Resonance Electrical Impedance Tomography (MREIT) in Electrical Impedance Tomography, (ed.) Holder D, IOP, 2005.
- Woo E J et al., Biomedical Signal Processing, Ryo Moon Gak, 1997.
- Woo E J et al., Medical Instrumentation, Ryo Moon Gak, 1993.
- Woo E J, Computational Complexity in Electrical Impedance Tomography, (ed) Webster J G, Adam Hilger, 1990.
- Hua P and Woo E J, Reconstruction Algorithms in Electrical Impedance Tomography, (ed) Webster J G, Adam Hilger, 1990.
- Woo E J, Inductive Sensors in Tactile Sensors for Robotics and Medicine, (ed) Webster J G, Wiley, 1988.
- Woo E J, Application to Robotic Manipulator Sensing in Tactile Sensors for Robotics and Medicine, (ed) Webster J G, Wiley, 1988.

● Patent

(A) International Patent

- Woo E J, Oh T I, Kwon O I, Kim S W, "Device for imaging and diagnosing upper airway obstruction condition using conductivity tomography," PCT/KR2015/004061, 2015.
- Kwon O I, Woo E J, Park C J, Nam H S, "Apparatus and method for imaging shear modulus within a body," US patent, US8,128,564, 2012.
- Woo E J, Seo J K, Kwon O, Kim T S, Lee B I, Lee S H, "System and method for visualizing conductivity and current density distribution in object," EU patent, EP1952764, 2010.
- Woo E J, Oh D I, Seo J K, Kwon O I, "System for electrical impedance tomography and method thereof," US patent, US7847565, 2010.
- Woo E J, Seo J K, Kwon O I, Kim T S, Lee B I, Lee S H, "System and method for visualizing conductivity and current density distribution in object," US patent, US7514921, 2009.
- Woo E J, Seo J K, Kwon O, Kim T S, Lee B I, Lee S H, "System and method for visualizing conductivity and current density distribution in object," EU patent, EP1689295, 2009.
- Woo E J, Seo J K, Kwon O I, "System and method for three-dimensional visualization of conductivity and current density distribution in electrically conducting object," US patent, US7440769, 2008.
- Woo E J, Seo J K, Kwon O I, "System and method for three-dimensional visualization of conductivity and current density distribution in electrically conducting object," EU patent, DE60313218, 2007.

(B) Korean Patent and Software

- 우응제, 오동인, 위헌, "생체 조직에 대한 전기적 물성 변화 측정 장치 및 그 방법," 특허 10-1690425, 2016.
- 우응제, 오동인, "체지방 측정장치 및 방법," 출원 10-2106-0032396, 2016.
- 우응제, 오동인, "수면 무호흡 모니터링 시스템," 출원 10-2106-0032398, 2016.
- 우응제, 권오인, 김형중, 정우철, 사집 사우립 자만 칸, "전류 주입 없이 MRI를 이용한 저주파 전도도 영상 복원 장치 및 그 방법," 출원 10-2106-0040043, 2016.
- 우응제, 오동인, "EIT를 위한 전극 측정 장치," 출원 10-2106-0163296, 2016.
- 우응제, 오동인, "피험자의 영상 모니터링 장치 및 그 방법과 영상 모니터링 시스템," 출원 10-2106-0154145, 2016.
- 우응제, 오동인, "신생아 무호흡 측정 장치 및 그 동작 방법과 신생아 무호흡 측정 시스템," 출원 10-2106-0154140, 2016.
- 우응제, 오동인, "수면 무호흡 측정장치 및 방법," 출원 10-2016-0154137, 2016.
- 우응제, 오동인, "폐기능 검사장치 및 그 방법," 출원 10-2016-0154142, 2016.
- 우응제, 오동인, 권오인, 김상욱, "도전율 단층 영상법을 이용한 상기도 폐쇄 양상의 영상화 및 진단장치," 등록 10-2015-0123186, 2015.
- 우응제, 오동인, 위헌, "내시경을 이용한 생체 조직의 특성 측정 장치 및 그 방법," 등록 10-2015-0117451, 2015.
- 우응제, 이은아, 오동인, 서진근, 이은정, "세포 및 조직 배양을 위한 실시간 모니터링

- 및 피드백 제어장치 및 그 방법," 출원 10-2015-0012640, 2015.
- 우응제, 오동인, "체형 및 체성분 측정 관리 시스템 및 그 동작 방법," 출원 10-2014-1068733, 2014.
 - 우응제, 오동인, 서진근, 권오인, "전기 임피던스 단층촬영 방법 및 시스템," 특허 7,847,565호, 2010.
 - 이병일, 권오인, 우응제, 박춘재, "탄성률 영상화 방법 및 장치," 특허 8,128,564호, 2012.
 - 백종철, 오동인, 우응제, "위상차를 이용한 정현파 진폭 측정 방법 및 그 장치," 특허 10-1203041호, 2012.
 - 이창욱, 전기완, 우응제, 서진근, "CoReHa," 대한민국 소프트웨어 2009-01-186-001989, 2009.
 - 우응제, 오동인, 서진근, 권오인, "측정대상 내의 병소를 검출하는 장치 및 방법," 특허 10-0785882호, 2007.
 - 우응제, 권오인, 서진근, "신체내의 병소를 검출하는 장치 및 방법," 특허 10-0688355호, 2007.
 - 우응제, 권오인, 서진근, 김태성, 이석호, 이병일, "자속밀도 처리 장치 및 방법," 특허 10-0660557, 2006.
 - 우응제, 권오인, 서진근, "도전율 및 전류밀도의 3차원 영상화 방법 및 그를 위한 시스템," 특허 10-0642837호, 2006.
 - 우응제, 권오인, 서진근, "이방성 도전율 및 전류밀도를 영상화하는 시스템 및 방법," 특허 10-0575210호, 2006.
 - 우응제, 권오인, 서진근, "도전율 및 전류밀도를 영상화하는 시스템 및 방법," 특허 10-0570202호, 2006.
 - 권오인, 서진근, 우응제, 윤정록, "인체내의 임피던스를 영상화하는 방법 및 장치," 특허 0400978호, 2003.

● Research Paper

(A) International Journal

- Jeong W C, Sajib S Z K, Katoch N, Kim H J, Kwon O I and Woo E J 2017 Anisotropic conductivity tensor imaging of in vivo canine brain using DT-MREIT IEEE Trans. Med. Imag. 36 124-131
- Sajib S Z K, Oh T I, Kim H J, Kwon O I and Woo E J 2017 In vivo mapping of current density distribution in brain tissues during deep brain stimulation (DBS) AIP Adv. 7 015004
- Jin L, Kim K J, Song E H, Ahn Y J, Jeong Y J, Oh T I and Woo E J 2016 Highly precise nanofiber web-based dry electrodes for vital signal monitoring RSC Adv. 6 40045
- Sajib S Z K, Jeong W C, Kyung E J, Kim H B, Oh T I, Kim H J, Kwon O I and Woo E J 2016 Experimental evaluation of electrical conductivity imaging of anisotropic brain tissues using a combination of diffusion tensor imaging and magnetic resonance electrical impedance

tomography AIP Adv. 6 065109

- Lee H Y, Jeong W C, Kim H J, Woo E J and Park J S 2016 Alternating steady state free precession for estimation of current-induced magnetic flux density: A feasibility study Magn. Reson. Med. 75 2009–2019
- Kim H B, Oh T I, Swanberg K M, Lee M B, Kim T W, Woo E J, Park J H and Kwon O I 2016 Microelectrode array analysis of hippocampal network dynamics following theta-burst stimulation via current source density reconstruction by Gaussian interpolation J. Neurosci. Meth. 264 1-10
- Jeong W C, Lee M B, Sajib S Z K, Kim H J, Kwon O I and Woo E J 2016 Enhanced magnetic flux density mapping using coherent steady state equilibrium signal in MREIT AIP Adv. 6 035121
- Kwon O I, Sajib S Z K, Sersa I, Oh T I, Jeong W C, Kim H J, Woo E J 2016 Current density imaging during transcranial direct current stimulation using DT-MRI and MREIT: Algorithm development and numerical simulations IEEE Trans. Biomed. Eng. 63 168-175
- Ammari H, Lee E, Kwon H, Seo J K and Woo E J 2015 Mathematical modeling of mechanical vibration-assisted conductivity imaging SIAM J. Appl. Math. 75 1031-1046
- Jeong W C, Wi H, Sajib S Z K, Oh T I, Kim H J, Kwon O I and Woo E J 2015 Evaluation of three-dimensional anisotropic head model for mapping realistic electromagnetic fields of brain tissues AIP Adv. 5 087152
- Oh T I, Kim H B, Jeong W C, Sajib S Z K, Kyung E J, Kim H J, Kwon O I and Woo E J 2015 Sub-millimeter resolution electrical conductivity images of brain tissues using magnetic resonance-based electrical impedance tomography Appl. Phys. Lett. 107 023701
- Wi H, McEwan A L, Lam V, Kim H J, Woo E J and Oh T I 2015 Real-time conductivity imaging of temperature and tissue property changes during radiofrequency ablation: An ex vivo model using weighted frequency difference Bioelectromagnetics 34 277-286
- Sajib S Z K, Kim J E, Jeong W C, Kim H J, Kwon O I and Woo E J 2015 Reconstruction of apparent orthotropic conductivity tensor image using magnetic resonance electrical impedance tomography (MREIT) J Appl. Phys. 117 104701
- Kim D H, Chauhan M, Kim M, Jeong W C, Kim H J, Sersa I, Kwon O I and Woo E J 2015 Frequency-dependent conductivity contrast for tissue characterization using a dual-frequency range conductivity mapping magnetic resonance method IEEE Trans. Med. Imag. 34 507-513
- Oh T I, Kim C, Karki B, Son Y, Lee E A and Woo E J 2015 Non-destructive label-free continuous monitoring of in vitro chondrogenesis via electrical conductivity and its anisotropy Biotech. Bioeng. 112 422-427
- Kim H J, Jeong W C, Sajib S Z K, Kim M O, Kwon O I, Woo E J and Kim D H 2014 Simultaneous imaging of dual-frequency electrical conductivity using a combination of MREIT and MREPT Magn. Reson. Med. 71 200-208
- Kwon O I, Chauhan M, Kim H J, Jeong W C, Wi H, Oh T I and Woo E J 2014 Fast conductivity imaging in magnetic resonance electrical impedance tomography (MREIT) for RF ablation monitoring Int. J Hyperthermia 30 447-455

- Kang M H, Lee S W, Kim H J, Woo E J and Park H M 2014 Serial magnetic resonance imaging and long-term medical management of intracranial arachnoid cyst in a dog Pak. Vet. J. 34 417-419
- Seo J K and Woo E J 2014 Electrical tissue property imaging at low frequency using MREIT IEEE Trans. Biomed. Eng. 61 1390-1399
- Bera T K, Mohamadou Y, Lee K H, Wi h, Oh T I, Woo E J, Soleimani M and Seo J K 2014 Electrical impedance spectroscopy for electro-mechanical characterization of conductive fabrics Sensors 14 9738-9754
- Kwon O I, Jeong W C, Sajib S Z K, Kim H J and Woo E J 2014 Anisotropic conductivity tensor imaging in MREIT using directional diffusion rate of water molecules Phys. Med. Biol. 59 2955-2974
- Farooq A, Tehrani J N, McEwan A L, Woo E J and Oh T I 2014 Improvements and artifact analysis in conductivity images using multiple internal electrodes Physiol. Meas. 35 1125-1135
- Kim H J, Jeong W C, Sajib S Z K, Kim M O, Kwon O I, Woo E J and Kim D H 2014 Simultaneous imaging of dual-frequency electrical conductivity using a combination of MREIT and MREPT Magn. Reson. Med. 71 200-208
- Karki B, Wi H, McEwan A, Kwon H N, Oh T I, Woo E J and Seo J K 2014 Evaluation of a multi-electrode bioimpedance spectroscopy tensor probe to detect the anisotropic conductivity spectra of biological tissues Meas. Sci. Technol. 25 075702
- Zhao M, Wi H, Lee E J, Woo E J and Oh T I 2014 Feasibility of anomaly detection and characterization using trans-admittance mammography with 60×60 electrode array Phys. Med. Biol. 59 5831-5847
- Jeong W C, Meng Z J, Kim H J, Kwon O I and Woo E J 2014 Experimental validations of in vivo human musculoskeletal tissue conductivity images using MR-based electrical impedance tomography Bioelectromagnetics 35 363-372
- Jeong W C, Chauhan M, Sajib S Z K, Kim H J, Sersa I, Kwon O I and Woo E J 2014 Optimization of magnetic flux density measurement using multiple RF receiver coils and multi-echo in MREIT Phys. Med. Biol. 59 4827-4844
- Oh T I, Jeong W C, Kim J E, Sajib S Z K, Kim H J, Kwon O I and Woo E J 2014 Noise analysis in fast magnetic resonance electrical impedance tomography (MREIT) based on spoiled multi gradient echo (SPMGE) pulse sequence Phys. Med. Biol. 59 4723-4738
- Ahn S J, Oh T I, McEwan A L, Jun S C and Woo E J 2014 Continuous nondestructive monitoring method using the reconstructed three-dimensional conductivity images via GREIT for tissue engineering J. Appl. Math. 562176
- Oh T I, Chauhan M, Sajib S Z K, Kim J E, Jeong W C, Wi H, Kwon O I, Woo E J and Kim H J 2014 Modelling of electromagnetic field distribution for optimizing electrode configurations in liver MR-based electrical impedance tomography Electronics Letters 50 1273-1275
- Sohal H, Wi H, McEwan A L, Woo E J and Oh T I Electrical impedance imaging system using FPGAs for flexibility and interoperability 2014 Biomed. Eng. OnLine 13 126

- Kim H J, Meng Z J, Sajib S Z K, Chauhan M, Jeong W C, H. Wi, Kwon O I, Woo E J and Oh T I 2014 Numerical simulation of electromagnetic field distribution induced in brain by electrical stimulation *Electronics Letters* 50 1045–1047
- Oh T I, Kim H J, Jeong W C, Wi h, Kwon O I and Woo E J 2014 Conductivity image enhancement in MREIT using adaptively weighted spatial averaging filter *Biomed. Eng. OnLine* 13 87
- Kwon O I, Jeong W C, Sajib S Z K, Kim H J, Woo E J and Oh T I 2014 Reconstruction of dual-frequency conductivity by optimization of phase map in MREIT and MREPT *Biomed. Eng. OnLine* 13 24
- Chauhan M, Jeong W C, Kim H J, Kwon O I and Woo E J 2013 Optimization of magnetic flux density for fast MREIT conductivity imaging using multi-echo interleaved partial Fourier acquisitions *Biomed. Eng. OnLine* 12 82
- Chauhan M, Jeong W C, Kim H J, Kwon O I and Woo E J 2013 Radiofrequency ablation lesion detection using MR-based electrical conductivity imaging: a feasibility study of ex vivo liver experiments *Int. J. Hyperthermia* 29 643-652
- Kim H J, Sajib S Z K, Jeong W C, Kim M N, Kwon O I and Woo E J 2013 Analysis of local projected current density from one component of magnetic flux density in MREIT *Inv. Prob.* 29 075001
- Meng Z J, Sajib S Z K, Chauhan M, Sadleir R J, Kim H J, Kwon O I and Woo E J 2013 Numerical simulation of MREIT conductivity imaging for brain tumor detection *Comput. Math. Meth. Med.* 704829
- Kim H H, Minhas A S and Woo E J 2013 An iterative method for problems with multiscale conductivity *Comput. Math. Meth. Med.* 893040
- Oh T I, Kim H J, Jeong W C, Chauhan M, Kwon O I and Woo E J 2013 Detection of temperature distribution via recovering electrical conductivity in MREIT *Phys. Med. Biol.* 58 2697-2711
- Oh T I, Jeong W C, McEwan A, Park H M, Kim H Jm Kwon O I and Woo E J 2013 Feasibility of magnetic resonance electrical impedance tomography (MREIT) conductivity imaging to evaluate brain abscess lesion: in vivo canine model *J. Magn. Reson. Imag.* 38 189-197
- Kwon O I, Woo E J, Du Y P and Hwang D 2013 A tissue relaxation dependent neighboring method for robust mapping of the myelin water fraction *NeuroImage* 74 12-21
- Sadleir R J, Sajib S Z K, Kim H J, Kwon O I and Woo E J 2013 Simulations and phantom evaluations of magnetic resonance electrical impedance tomography (MREIT) for breast cancer detection *J. Magn. Reson.* 230 40-49
- Baeg J C, Wi H, Oh T I, McEwan A L and Woo E J 2013 An amplitude-to-time conversion technique suitable for multichannel data acquisition and bioimpedance imaging *IEEE Trans. Biomed. Circ. Sys.* 7 349-354
- Oh T I, Yoon S, Kim T E, Wi H, Kim K J, Woo E J and Sadleir R J 2013 Nanofiber web textile dry electrode for long-term biopotential recording *IEEE Trans. Biomed. Circ. Sys.* 7 204-211
- Kwon H, McEwan A L, Oh T I, Farooq A, Woo E J and Seo J K 2013 A local region of interest imaging method for electrical impedance tomography with internal electrodes *Comput. Math. Meth. Med.*

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- Kranjc M, Bajd F, Sersa I, Woo E J and Miklavcic D 2012 Ex vivo and in silico feasibility study of monitoring electric field distribution in tissue during electroporation based treatments PLoS ONE 7 e45737
- Seo J K, Kim M O, Lee J, Choi N, Woo E J, Kim H J, Kwon O I and Kim D H 2012 Error analysis of nonconstant admittivity for MR-based electric property imaging IEEE Trans. Med. Imag. 31 430-437
- Sajib S Z K, Kim H J, Kwon O I and Woo E J 2012 Regional absolute conductivity reconstruction using projected current density in MREIT Phys. Med. Biol. 57 5841-5859
- Seo J K, Kim D H, Lee J, Kwon O I, Sajib S Z K and Woo E J 2012 Electrical tissue property imaging using MRI at dc and Larmor frequency Inv. Prob. 28 084002
- Kim M N, Ha T Y, Woo E J and Kwon O I 2012 Improved conductivity reconstruction from multi-echo MREIT utilizing weighted voxel-specific signal-to-noise ratios Phys. Med. Biol. 57 3643-6359
- Lee E, Ts M E, Seo J K and Woo E J 2012 Breast EIT using a new projected image reconstruction method with multi-frequency measurements Physiol. Meas. 33 751-765
- Kim S, Lee E J, Woo E J and Seo J K 2012 Asymptotic analysis of the membrane structure to sensitivity of frequency-difference electrical impedance tomography Inv. Prob. 28 075004
- Oh T I, Kim T E, Yoon S, Kim K J, Woo E J and Sadleir R J 2012 Flexible electrode belt for EIT using nanofiber web dry electrodes Physiol. Meas. 33 1603-1616
- Kim H J, Kim Y T, Jeong W C, Minhas A S, Lim C Y, Park H M and Woo E J Conductivity imaging of canine body using 3T magnetic resonance electrical impedance tomography (MREIT) system 2011 Scientia Iranica 18 1505-1510
- Kim Y T, Yoo P J, Oh T I and Woo E J 2011 Magnetic flux density measurement in magnetic resonance electrical impedance tomography using a low-noise current source Meas. Sci. Technol. 22 105803
- Minhas A S, Jeong W C, Kim Y T, Han Y, Kim H J and Woo E J 2011 Experimental performance evaluation of multi-echo ICNE pulse sequence in magnetic resonance electrical impedance tomography Magn. Reson. Med. 66 957-965
- Seo J K, Jeon K, Lee C O and Woo E J 2011 Non-iterative harmonic Bz algorithm in MREIT Inv. Prob. 27 085003
- Lee C O, Jeon K, Ahn S, Kim H J and Woo E J 2011 Ramp-preserving denoising for conductivity image reconstruction in magnetic resonance electrical impedance tomography IEEE Trans. Biomed. Eng. 58 2038-2050
- Song Y, Lee E, Woo E J and Seo J K 2011 Optimal geometry toward uniform current density electrodes Inv. Prob. 27 075004
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- Seo J K and Woo E J 2011 Magnetic resonance electrical impedance tomography (MREIT) SIAM

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- Liu Q, Oh T I, Wi H, Lee E J, Seo J K and Woo E J 2011 Design of a microscopic electrical impedance tomography using two current injections *Physiol. Meas.* 32 1505-1516
- Oh T I, Wi H, Kim D Y, Yoo P J and Woo E J 2011 A fully parallel multi-frequency EIT system with flexible electrode configuration: KHU Mark2 *Physiol. Meas.* 32 835-849
- Lee E, Seo J K, Woo E J and Zhang T 2011 Mathematical framework for a new microscopic electrical impedance tomography system *Inv. Prob.* 27 055008
- Sadleir R J, Grant S C and Woo E J 2010 Can high-field MREIT be used to directly detect neural activity? Theoretical considerations *NeuroImage* 52 205-216
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● Entrepreneurship

- BiLab, Inc., <http://www.bilabhealthcare.com>