

Emine Ulku SARITAS, *Ph.D.*

CONTACT INFORMATION

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Dept. of Electrical & Electronics Engineering
Bilkent University

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RESEARCH INTERESTS

Biomedical imaging systems, Magnetic Particle Imaging (MPI), Magnetic Resonance Imaging (MRI)

Imaging systems for biomedical, clinical, and biological applications. Pre-clinical and clinical implementations of novel imaging methods, contrast mechanisms, and image reconstruction methods. Safety limits of magnetic fields used in medical imaging systems. Signal and image processing.

EDUCATION

Stanford University, Stanford, CA, USA

Ph.D., Electrical Engineering, June 2004 - Dec. 2009.

Dissertation title: High-Resolution Diffusion MRI of Targeted Regions

Primary Advisor: Prof. Dwight G. Nishimura

Secondary Advisor: Prof. John M. Pauly

M.S., Electrical Engineering, Sept. 2002 - June 2004.

Bilkent University, Ankara, Turkey

B.S., Electrical and Electronics Engineering, Sept. 1998 - June 2002.

ACADEMIC EXPERIENCE

Bilkent University, Department of Electrical & Electronics Engineering, and National Magnetic Resonance Research Center (UMRAM), Ankara, TURKEY

Assistant Professor, Sept. 2013 - Present.

University of California, Berkeley, Department of Bioengineering, Berkeley, CA, USA

Postdoctoral Researcher, Berkeley Imaging Systems Lab., Sept. 2010 - Aug. 2013.

Advisor: Prof. Steven M. Conolly

Stanford University, Department of Electrical Engineering, Stanford, CA, USA

Postdoctoral Researcher, Magnetic Resonance Systems Research Lab., Jan. 2010 - Aug. 2010.

Advisor: Prof. Dwight G. Nishimura

Research Assistant, Magnetic Resonance Systems Research Lab., June 2003 - Dec. 2009.

Teaching Assistant, EE369A: Medical Imaging I (Graduate Level), Winter 2007.

PROFESSIONAL EXPERIENCE

Stanford University, Stanford, CA, USA

Consultant, Department of Radiology, Jan. 2011 - Jan. 2012.

Clinical implementations of novel MRI pulse sequences for high-resolution diffusion-weighted imaging, in collaboration with GE Healthcare.

GE Healthcare, Menlo Park, CA, USA

Researcher, Applied Science Laboratory, June 2008 - Sept. 2008.

New methods for improved high-resolution diffusion-weighted imaging and diffusion-tensor imaging, advanced MRI pulse sequence development, and RF pulse design.

ACADEMIC JOURNAL EDITORSHIP

- Associate Editor for *IEEE Transactions on Medical Imaging*, since January 2016.
- Editorial Board Member for *Scientific Reports*, Nature Publishing Group, since December 2014.
- Review Editor in Biomedical Physics for *Frontiers in Physics*, since April 2016.
- Editorial Board Member for *International Journal on Magnetic Particle Imaging*, Infinite Science Publishing, since November 2015.
- Invited Editor for *Turkish Journal of Electrical Engineering & Computer Sciences*, TUBITAK, March 2016.

HONORS AND AWARDS

- Distinguished Teaching Award, Bilkent University, June 2018.
- Scientist of the Year Award, Science Heroes Association (Bilim Kahramanlari Dernegi), May 2017.
- Young Scientist Award (BAGEP), Science Academy (Bilim Akademisi), April 2016.
- Chair of Women in Engineering, IEEE Turkey Section, since April 2016.
- Young Scientist Outstanding Achievement Award (GEBIP), Turkish Academy of Sciences (TUBA), May 2015.
- Career Award for Young Researchers (TUBITAK 3501), The Scientific and Technological Research Council of Turkey, October 2014.
- Marie Curie Career Integration Grant, European Commission, October 2013.
- Postdoctoral Reintegration Fellowship (TUBITAK 2232), The Scientific and Technological Research Council of Turkey, August 2013.
- Siebel Stem Cell Institute Postdoctoral Fellowship, UC Berkeley, Jan. - Dec. 2011.
- Lucent Technologies Stanford Graduate Fellowship, 12 quarters, Autumn 2002 - Summer 2005.
- Ranked 7th (out of about 200 MS students) in the PhD qualifying examinations in Dept. of Electrical Engineering, Stanford University, 2003.
- First in class (with GPA of 4.00/4.00) out of about 300 students in Class of 2002 in the entire School of Engineering, Bilkent University, Ankara, Turkey, 2002.
- Full scholarship for undergraduate education in the top engineering school in Turkey, Bilkent University, Ankara, Turkey, 1998 - 2002.
- Ranked 96th among 1.5 million examinees in the nationwide university entrance examinations, Turkey, 1998.

RESEARCH PROJECTS

- “Magnetic Particle Imaging for the Treatment and Imaging of Stroke”, **Principal Investigator**, EuroNanoMed III Project, 217S069, 2018-2021.
- “RF Pulse and Sequence Techniques for Focused Magnetic Resonance Imaging”, **Principal Investigator**, TUBITAK 1001 Project, 117E116, 2018-2021.
- “Interventions Guided by Magnetic Imaging and Nanoparticle Coated Equipment”, **Principal Investigator**, TUBITAK-BMBF Turkey-Germany 2+2 Project, 115E677, 2017-2020.
- “Magnetic Active Nanochains for Nanobiomedicine”, **Principal Investigator**, European Commission, ERA.Net RUS Plus Project, 215E198, 2016-2017.
- “Magnetic Particle Imaging for Cancer Imaging: Sensing Local Diffusion Effects”, **Principal Investigator**, TUBITAK 3501 - Career Development Grant, 114E167, 2014-2017.
- “Magnetic Particle Imaging for Safe Angiography”, **Principal Investigator**, Marie Curie Career Integration Grant, European Commission, PCIG13-GA-2013-618834, 2013-2017.
- “High Resolution Magnetic Particle Imaging”, **Principle Investigator**, TUBITAK 2232 - Postdoctoral Reintegration Grant, The Scientific and Technological Research Council of Turkey, 113C012, 2013-2015.
- “UMRAM-ASI”, **Researcher** (Principle Investigator: Ergin Atalar), Turkish Ministry of Development Grant, 2015BSV30202, 2016-2019.
- “Development of Compressed Sensing Magnetic Resonance Imaging Technologies”, **Researcher** (Principle Investigator: Tolga Cukur), ASELSAN-Bilkent Joint Project, 2015-2018.
- “Bilkent University R&D Strategy Document - Neurosciences”, **Researcher**, TUBITAK 1000 Project, 2017-2018.
- “Implant Compatible Magnetic Resonance Imaging”, **Researcher** (Principle Investigator: Ergin Atalar), Turkish Ministry of Development Grant, 02.04.STZ-2013-1, 2013-2016.
- “Magnetostimulation Limits for kHz Range Magnetic Fields to Improve MPI”, Postdoctoral Researcher, University of California Berkeley, 2010-2013.

- “Magnetic Particle Imaging: A Novel Ultra-Sensitive Imaging Scanner for Tracking Stem Cells In Vivo”, Researcher (Principal Investigator: Steven M. Conolly), CIRM Tools and Technologies Grant RT1-01055 & RT2-01893, 2010-2013.
- “Magnetic Particle Imaging Angiography for Chronic Kidney Disease Patients”, Researcher (Principal Investigator: Steven M. Conolly), NIH Grant R01 EB013689, 2011-2013.
- “Reduced-FOV Diffusion MRI of Spine, Head and Neck”, Researcher (Co-directors: Greg Zaharchuk and Ajit Shankaranarayanan), Stanford University - General Electric (GE) Healthcare Sponsored Tiger Team Project, 2011-2012.
- “High-Resolution Diffusion MRI of Targeted Regions”, Ph.D. Thesis Project, Advisor: Dwight G. Nishimura, Stanford University, 2003-2010.

PATENT

EU Saritas, S Banerjee. “System and Method for Reduced Field of View Magnetic Resonance Imaging”. US Patent, US 9664762 B2. Status: Granted, 2017.

BOOK CHAPTER

EU Saritas, SJ Holdsworth, R Bammer. “Susceptibility Artifacts in Spinal Cord”. p.91-105, In *Quantitative MRI of the Spinal Cord*, ISBN:9780123969736, Elsevier, March 2014.

JOURNAL PUBLICATIONS

1. Y Muslu, M Utkur, OB Demirel, **EU Saritas**. “Calibration-Free Relaxation-Based Multi-Color Magnetic Particle Imaging”. *IEEE Trans Med Imag*, DOI: 10.1109/TMI.2018.2818261.
2. SG Kafali, T Cukur, **EU Saritas**. “Phase-Correcting Non-Local Means Filtering for Diffusion Weighted Imaging of the Spinal Cord”. *Magn Reson Med*, 80(3):1020-1035, 2018.
3. A Alipour, Z Soran-Erdem, M Utkur, VK Shamra, O Algin, **EU Saritas**, HV Demir. “A New Class of Cubic SPIONs as Dual-mode T1 and T2 Contrast Agent for MRI”, *Magn Reson Imaging*, 49, 16-24, 2018.
4. Y Yar, R Khodadust, Y Akkoc, M Utkur, **EU Saritas**, D Gozuacik, HY Acar. “Development of Tailored SPION-PNIPAM Nanoparticles by ATRP for Dually Responsive Doxorubicin Delivery and MR Imaging”, *J Mater Chem B*, 6:289-300, 2018.
5. B Zheng, E Yu, R Orendorff, K Lu, JJ Konkle, ZW Tay, D Hensley, XY Zhou, P Chandrasekharan, **EU Saritas**, PW Goodwill, JD Hazle, SM Conolly. “Seeing SPIOs Directly In Vivo with Magnetic Particle Imaging”, *Mol Imaging Biol*, 19(3):385-390, 2017.
6. S Ilbey, CB Top, A Gungor, T Cukur, **EU Saritas**, HE Guven. “Comparison of System-Matrix-Based and Projection-Based Reconstructions for Field Free Line Magnetic Particle Imaging”, *International Journal on Magnetic Particle Imaging*, 3(1):1703022, 2017.
7. OB Demirel, **EU Saritas**. “Effects of Duty Cycle on Magnetostimulation Thresholds in MPI”, *International Journal on Magnetic Particle Imaging*, 3(1):1703010, 2017.
8. M Utkur, Y Muslu, **EU Saritas**. “Relaxation-based viscosity mapping for magnetic particle imaging”. *Phys Med Biol*, 62(9):3422-3439, 2017.
9. E Bozkurt, **EU Saritas**. “Signal-to-noise ratio optimized image reconstruction technique for magnetic particle imaging”. *J Fac Eng Archit Gaz*, 32(3):999-1013, 2017.
10. K Thangavel, **EU Saritas**. “Aqueous paramagnetic solutions for MRI phantoms at 3T: A detailed study on relaxivities”. *Turk J Elec Eng & Comp Sci*, 25(3):2108-2121, 2017.
11. S Banerjee, DG Nishimura, A Shankaranarayanan, **EU Saritas**. “Reduced Field-of-View DWI with Robust Fat Suppression and Unrestricted Slice Coverage Using Tilted 2D RF Excitation”. *Magn Reson Med*, 76(6):1668-1676, 2016.
12. E Ilicak, S Cetin, E Bulut, KK Oguz, **EU Saritas**, G Unal, T Cukur. “Targeted Vessel Reconstruction in Non-contrast-enhanced Steady-state Free Precession Angiography”. *NMR Biomed*, 29(5):532-544, 2016.
13. LR Croft, PW Goodwill, JJ Konkle, H Arami, DA Price, AX Li, **EU Saritas**, SM Conolly. “Low Drive Field Amplitude for Improved Image Resolution in Magnetic Particle Imaging”. *Med Phys*, 43(1):424-435, 2016.
14. O Yilmaz, **EU Saritas**, T Cukur. “Enhanced Phase-Sensitive SSFP Reconstruction for Fat-Water Separation in Phased-Array Acquisitions”. *J Magn Reson Imaging*, 44(1):148-157, 2016.

15. B Zheng, T Vazin, PW Goodwill, A Conway, A Verma, **EU Saritas**, D Schaffer, SM Conolly. “Magnetic Particle Imaging tracks the long-term fate of in vivo neural cell implants with high image contrast”. *Sci Rep* 5:14055, 2015.
16. **EU Saritas**, PW Goodwill, SM Conolly. “Effects of Pulse Duration on Magnetostimulation Thresholds”. *Med Phys* 42(6):3005-3012, 2015.
17. RM Ferguson, AP Khandhar, SJ Kemp, H Arami, **EU Saritas**, LR Croft, J Konkle, PW Goodwill, A Halkola, J Rahmer, J Borgert, SM Conolly, KM Krishnan. “Magnetic Particle Imaging with Tailored Iron Oxide Nanoparticle Tracers”. *IEEE Trans Med Imag*, 34(5):1077-1084, 2015.
18. N Korn, J Kurhanewicz, S Banerjee, O Starobinets, **E Saritas**, S Noworolski. “Reduced-FOV excitation decreases susceptibility artifact in diffusion-weighted MRI with endorectal coil for cancer detection”. *Magn Reson Imaging*, 33(1):56-62, 2015.
19. **EU Saritas**, D Lee, T Cukur, A Shankaranarayanan, DG Nishimura. “Hadamard Slice Encoding for Reduced-FOV Diffusion-Weighted Imaging”. *Magn Reson Med*, 72:1277-1290, 2014.
20. JJ Konkle, PW Goodwill, **EU Saritas**, B Zheng, K Lu, SM Conolly. “Twenty-Fold Acceleration of 3D Projection Reconstruction MPI”. Invited paper. *Biomed Tech (Berl)*, 13:1-12, 2013.
21. **EU Saritas**, PW Goodwill, GZ Zhang, SM Conolly. “Magnetostimulation Limits in Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 32(9):1600-1610, 2013.
22. K Lu, PW Goodwill, **EU Saritas**, B Zheng, SM Conolly. “Linearity and Shift-Invariance for Quantitative X-Space Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 32(9):1565-1575, 2013.
23. LJ Wilmes, RL McLaughlin, DC Newitt, L Singer, SP Sinha, E Proctor, DJ Wisner, **EU Saritas**, J Kornak, A Shankaranarayanan, S Banerjee, EF Jones, BN Joe, NM Hylton. “High-Resolution Diffusion-Weighted Imaging for Monitoring Breast Cancer Treatment Response”. *Academic Radiology*, 20(5):581-589, 2013.
24. DC Karampinos, G Melkus, TM Shepherd, S Banerjee, **EU Saritas**, A Shankaranarayanan, CP Hess, TM Link, WP Dillon, S Majumdar. “Diffusion Tensor Imaging and T2 Relaxometry of Bilateral Lumbar Nerve Roots: Feasibility of In-plane Imaging”. *NMR Biomed*, 26(6):630-637, 2013.
25. **EU Saritas**, PW Goodwill, LR Croft, JJ Konkle, K Lu, B Zheng, SM Conolly. “Magnetic Particle Imaging (MPI) for NMR and MRI Researchers”. Invited paper. *J Magn Reson*, 229:116-126, 2013.
26. **PW Goodwill***, **EU Saritas*** (***co-first authors**), LR Croft, T Kim, KM Krishnan, DV Schaffer, SM Conolly. “X-Space MPI: Magnetic Nanoparticles for Safe Medical Imaging”. Invited paper. *Advanced Materials*, 24(28):3870-3877, 2012.
27. PW Goodwill, JJ Konkle, B Zheng, **EU Saritas**, SM Conolly. “Projection X-Space Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 31(5):1076-1085, 2012.
28. JB Andre, **EU Saritas**, G Zaharchuk, J Rosenberg, ST Komakula, S Banerjee, A Shankaranarayanan, DG Nishimura, NJ Fischbein. “Clinical Evaluation of Reduced Field-of-View (rFOV) Diffusion-Weighted Imaging of the Cervical and Thoracic Spine and Spinal Cord”. *Am J Neurorad*, 33(10):1860-1866, 2012.
29. L Singer, LJ Wilmes, **EU Saritas**, A Shankaranarayanan, E Proctor, DJ Wisner, B Chang, BN Joe, DG Nishimura, NM Hylton. “High-resolution Diffusion-weighted Magnetic Resonance Imaging in Patients with Locally Advanced Breast Cancer.” *Academic Radiology*, 19(5):526-534, 2012.
30. T Cukur, M Lustig, **EU Saritas**, DG Nishimura. “Signal Compensation and Compressed Sensing for Magnetization-Prepared MR Angiography.”. *IEEE Trans Med Imag*, 30(5):1017-1027, 2011.
31. **EU Saritas**, JH Lee, DG Nishimura. “SNR Dependence of Optimal Parameters for Apparent Diffusion Coefficient Measurements”. *IEEE Trans Med Imag*, 30(2):424-437, 2011.

32. G Zaharchuk, **EU Saritas**, JB Andre, CT Chin, J Rosenberg, TJ Brosnan, A Shankaranarayanan, DG Nishimura, NJ Fischbein. “Reduced Field-of-View Diffusion Imaging of the Human Spinal Cord: Comparison with Conventional Single-shot Echo-Planar Imaging”. *Am J Neurorad*, 32(5):813-820, 2011.
33. **EU Saritas**, CH Cunningham, JH Lee, ET Han, DG Nishimura. “DWI of the Spinal Cord with Reduced FOV Single-Shot EPI”. *Magn Reson Med*, 60(2):468-473, 2008.
34. JH Lee, SO Dumoulin, **EU Saritas**, GH Glover, BA Wandell, DG Nishimura, JM Pauly. “Full-Brain Coverage and High-Resolution Imaging Capabilities of Passband b-SSFP fMRI at 3T”. *Magn Reson Med*, 59(5):1099-1110, 2008.

CONFERENCE
PUBLICATIONS

1. SG Kafali, C Aydinkarahaliloglu, T Cukur, **EU Saritas**. “Anisotropic Diffusion Filter for Simultaneous Combination and Denoising of Multiple Acquisitions in DWI of the Spinal Cord”, *Proc of the 26th Annual Meeting of ISMRM*, Paris, France, p.1626, June 2018 (Accepted).
2. E Kopanoglu, A Gungor, T Kilic, **EU Saritas**, Tolga Cukur, HE Guven. “Compressive Sensing Reconstruction for Multi-Contrast Data with Unequal Acceleration Rates”, *Proc of the 26th Annual Meeting of ISMRM*, Paris, France, p. 3534, June 2018 (Accepted).
3. K Ertan, S Taraghinia, **EU Saritas**, E Atalar. “Local Optimization of Diffusion Encoding Gradients Using a Z-Gradient Array for Echo Time Reduction in DWI”, *Proc of the 26th Annual Meeting of ISMRM*, Paris, France, p. 1641, June 2018 (Accepted).
4. M Shahdloo, E Ilcak, M Tofighi, **EU Saritas**, AE Cetin, T Cukur. “Rapid Self-Tuning Compressed-Sensing MRI using Projection onto Epigraph Sets”, *Proc of the 26th Annual Meeting of ISMRM*, Paris, France, p. 251, June 2018 (Accepted).
5. S Ilbey, CB Top, A Gungor, **EU Saritas**, HE Guven. “Real-Time Three-Dimensional Image Reconstruction Using Alternating Direction Method of Multipliers for Magnetic Particle Imaging”, *Proc of the 26th IEEE Signal Processing and Communications Applications Conference (SIU)*, Izmir, Turkey, May 2018.
6. T Kilic, T Cukur, O Algin, **EU Saritas**. “Joint Partial Fourier and Compressed Sensing Reconstruction for Accelerated Time-of-Flight MR Angiography”, *Proc of the 26th IEEE Signal Processing and Communications Applications Conference (SIU)*, Izmir, Turkey, May 2018.
7. S Ilbey, CB Top, A Gungor, **EU Saritas**, HE Guven. “Coded Scenes for Fast System Calibration in Magnetic Particle Imaging”, *Proc of the 2018 IEEE 15th International Symposium on Biomedical Imaging (ISBI)*, Washington DC, USA, April 2018.
8. M Utkur, Y Muslu, **EU Saritas**. “Viscosity Mapping through Relaxation Effects for Functional Magnetic Particle Imaging”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 151-152, March 2018.
9. Y Muslu, **EU Saritas**. “Relaxation-Based Calibration-Free Multi-Color MPI for FFL Scanners: A Simulation Study”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 147-148, March 2018.
10. AA Ozaslan, A Alacaoglu, OB Demirel, T Cukur, **EU Saritas**. “A Generalized Reconstruction Technique for Non-Cartesian X-Space MPI”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 133-134, March 2018.
11. S Kurt, Y Muslu, D Sarica, OB Demirel, **EU Saritas**. “An Alternative X-space Based Image Reconstruction without Partial FOV Processing”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 43-44, March 2018.
12. DM Yalcinkaya, A Sadeghi-Tarakameh, M Utkur, **EU Saritas**. “Finite Element Analysis of Passive Magnetic Shields for a FFP MPI Scanner”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 123-124, March 2018.
13. S Ilbey, CB Top, **EU Saritas**, HE Gven. “Fast System Calibration for MPI Using a Rotating Coded Calibration Scene”, *Proc of the 8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, p. 63-64, March 2018.

14. M Utkur, Y Muslu, **EU Saritas**. “A 4.8 T/m Magnetic Particle Imaging Scanner Design and Construction”, *Proc of the 21st National Biomedical Engineering Meeting (BIYOMUT)*, Istanbul, Turkey, November 2017.
15. E Bozkurt, M Utkur, Y Muslu, **EU Saritas**. “Effects of Drive Field Parameters in Magnetic Particle Imaging: A Relaxometer Study”, *Proc of the 21st National Biomedical Engineering Meeting (BIYOMUT)*, Istanbul, Turkey, November 2017.
16. S Ilbey, **EU Saritas**, CB Top. “Fast Calibration with Compressed Sensing using Alternating Direction Method of Multipliers in Magnetic Particle Imaging”, *Proc of the 21st National Biomedical Engineering Meeting (BIYOMUT)*, Istanbul, Turkey, November 2017.
17. OC Eren, **EU Saritas**. “Optimizing 2D RF Pulse Design for B0 Field Strength for Reduced-FOV Imaging”, *Proc of the 34th Annual Scientific Meeting of ESMRMB*, Barcelona, Spain, p. 575-576, October 2017.
18. M Shahdloo, E Ilicak, M Tofighi, **EU Saritas**, AE Cetin, T Cukur. “Adaptive Wavelet Thresholding for Profile-Encoding Reconstruction of Balanced Steady-State Free Precession Acquisitions”, *Proc of the 34th Annual Scientific Meeting of ESMRMB*, Barcelona, Spain, p. 629-631, October 2017.
19. D Sarica, OB Demirel, **EU Saritas**. “DC Shift Based Image Reconstruction for Magnetic Particle Imaging”, *Proc of the 25th IEEE Signal Processing and Communications Applications Conference (SIU)*, Antalya, Turkey, May 2017.
20. SG Kafali, T Cukur, **EU Saritas**. “Joint Non-local Means Reconstruction for Correction of Phase-Induced Errors in Diffusion Tensor Imaging”, *Proc of the 25th Annual Meeting of ISMRM*, Hawaii, USA, p.3332, April 2017.
21. T Kilic, E Ilicak, T Cukur, **EU Saritas**. “Improved SPIRiT Operator for Joint Reconstruction of Multiple T2-weighted Images”, *Proc of the 25th Annual Meeting of ISMRM*, Hawaii, USA, p.5165, April 2017.
22. C Bahadir, S Banerjee, A Shankaranarayanan, **EU Saritas**. “Sheared 2DRF Excitation for Improved Off-resonance Robustness in Reduced FOV Imaging”, *Proc of the 25th Annual Meeting of ISMRM*, Hawaii, USA, p.1318, April 2017.
23. E Kopanoglu, A Gungor, T Kilic, **EU Saritas**, T Cukur, HE Guven. “Joint Reconstruction of Multi-Contrast Images: Compressive Sensing Reconstruction using both Joint and Individual Regularization Functions”, *Proc of the 25th Annual Meeting of ISMRM*, Hawaii, USA, p.3875, April 2017.
24. S Ilbey, CB Top, T Cukur, **EU Saritas**, HE Guven. “Image Reconstruction for Magnetic Particle Imaging Using an Augmented Lagrangian Method”, *Proc of the 2017 IEEE 14th International Symposium on Biomedical Imaging (ISBI)*, Melbourne, Australia, p.64-67, April 2017.
25. M Utkur, A Alipour, Y Muslu, **EU Saritas**. “Relaxation-Based Viscosity Mapping in Different Viscous Environments”, *Proc of the 7th International Workshop on Magnetic Particle Imaging*, Prague, Czech Republic, March 2017.
26. S Ilbey, CB Top, A Gungor, T Cukur, **EU Saritas**, HE Guven. “Comparison of System-Matrix-Based and Projection-Based Reconstructions for Field Free Line Magnetic Particle Imaging”, *Proc of the 7th International Workshop on Magnetic Particle Imaging*, Prague, Czech Republic, March 2017.
27. OB Demirel, **EU Saritas**. “Effects of Duty Cycle on Magnetostimulation Thresholds in MPI”, *Proc of the 7th International Workshop on Magnetic Particle Imaging*, Prague, Czech Republic, March 2017.
28. SG Kafali, T Cukur, **EU Saritas**. “Simultaneous Phase-correction and Denoising for Diffusion-Weighted MRI”, *Proc of the 24th IEEE Signal Processing and Communications Applications Conference (SIU)*, Zonguldak, Turkey, p.1313-1316, May 2016.
29. E Ilicak, S Cetin, **EU Saritas**, G Unal, T Cukur. “Adaptive Reconstruction for Vessel Preservation in Unenhanced MR Angiography”, *Proc of the 24th IEEE Signal Processing and Communications Applications Conference (SIU)*, Zonguldak, Turkey, p.577-580, May 2016.

30. O Yilmaz, **EU Saritas**, T Cukur. “Phase-Sensitive Reconstruction for Fat-Water Separation in Multi-Coil Acquisitions”, *Proc of the 24th IEEE Signal Processing and Communications Applications Conference (SIU)*, Zonguldak, Turkey, p.469-472, May 2016.
31. SG Kafali, T Cukur, **EU Saritas**. “Phase-correcting Non-local Means Denoising for Diffusion-Weighted Imaging”, *Proc of the 24th Annual Meeting of ISMRM*, Singapore, p.2050, May 2016.
32. Y Muslu, M Utkur, OB Demirel, **EU Saritas**. “Calibration-Free Color MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.10, March 2016.
33. M Utkur, Y Muslu, A Alacaoglu, AA Ozaslan, **EU Saritas**. “Effects of Viscosity on Nanoparticle Relaxation Time Constant”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.22, March 2016.
34. OB Demirel, D Sarica, **EU Saritas**. “Rapid Scanning in X-Space MPI: Impacts on Image Quality”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.78, March 2016.
35. B Buyukates, D Sarica, **EU Saritas**. “Self Calibration for Relaxation- and System-Induced Delays in X-space MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.76, March 2016.
36. A Alacaoglu, AA Ozaslan, OB Demirel, **EU Saritas**. “Nonlinear Scanning in X-Space MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.74, March 2016.
37. D Sarica, OB Demirel, Y Muslu, **EU Saritas**. “DC Shift Imaging for X-Space MPI Reconstruction”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.80, March 2016.
38. G Onuker, OB Demirel, D Sarica, Y Muslu, **EU Saritas**. “Deconvolving Relaxation Effects in Multi-Dimensional X-space MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.82, March 2016.
39. E Bozkurt, OB Demirel, D Sarica, Y Muslu, **EU Saritas**. “Effects of Safety Limits on Image Quality in MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.70, March 2016.
40. CD Bahadir, M Utkur, **EU Saritas**. “Towards Simultaneous MFH and Temperature Monitoring with MPI”, *Proc of the 6th International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, p.49, March 2016.
41. LJ Wilmes, W-C Lo, Wen Li, DC Newitt, S Banerjee, E Proctor, **EU Saritas**, A Shankaranarayanan, NM Hylton. “High Spatial Resolution DWI for Evaluation of Breast Tumor Early Treatment Response: Association of ADC Changes with PCR”. *Proc of the 23^d Annual Meeting of ISMRM*, Toronto, Canada, p.1077, June 2015.
42. G Onuker, **EU Saritas**. “Simultaneous Relaxation Estimation and Image Reconstruction in MPI”, *Proc of the 5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015.
43. S Cetin, **EU Saritas**, G Unal. “Vessel Tractography for Magnetic Particle Imaging”, *Proc of the 5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015.
44. M Utkur, **EU Saritas**. “Comparison of Different Coil Topologies for an MPI Relaxometer”, *Proc of the 5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015.
45. D Sarica, **EU Saritas**. “Effects of Field Dependent Relaxation Time on X-Space MPI Images”, *Proc of the 5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015.
46. K Thangavel, M Utkur, **EU Saritas**. “Optimizing Nanoparticle Selection and Drive Field Properties for Simultaneous MPI and Hyperthermia”, *Proc of the 5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015.

47. S Banerjee, **EU Saritas**, R Connett, A Shankaranarayanan. “Reduced Field-of-View Diffusion with 2D Echo-Planar RF Excitation and Multiband Refocusing for Extended Slice Coverage and Robust Fast Suppression”, *Proc of the 22nd Annual Meeting of ISMRM*, Milan, Italy, p.4437, May 2014.
48. L Wilmes, WC Lo, DC Newitt, S Banerjee, E Proctor, **E Saritas**, A Shankaranarayanan, NM Hylton. “High Spatial Resolution DTI Sequence for Characterizing Breast Tumor Early Treatment Response: Comparison to Standard DTI Sequence”, *Proc of the 22nd Annual Meeting of ISMRM*, Milan, Italy, p.1055, May 2014.
49. ML Smits, BL Daniel, SE Clarke, J McKenney, A Wentland, M Saranathan, L Shin, K Sung, B Hargreaves, **EU Saritas**, DG Nishimura, G Sommer. “Accuracy of Multiparametric MRI for Mapping Prostate Cancer by Gleason Score”, *Proc of the 22nd Annual Meeting of ISMRM*, Milan, Italy, p.4102, May 2014.
50. **EU Saritas**, PW Goodwill, JJ Konkle, LR Croft, K Lu, B Zheng, SM Conolly. “Magnetic Particle Imaging for Safe Angiography and Stem Cell Tracking”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.140, April 2013.
51. B Zheng, T Vazin, W Yang, PW Goodwill, **EU Saritas**, LR Croft, DV Schaffer, SM Conolly. “High Contrast, Quantitative Stem Cell Tracking with Magnetic Particle Imaging”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.1857, April 2013.
52. S Banerjee, **EU Saritas**, Gerd Melkus, Ajit Shankaranarayanan. “Tilted 2D RF Excitation with Extended Slice Coverage for High-Resolution Reduced-FOV DWI”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.57, April 2013.
53. S Banerjee, OA Glenn, **EU Saritas**, X Mu, D Xu, PW Worters, A Shankaranarayanan. “Reduced Field-of-View DWI of the Fetal Brain with Adaptive Averaging”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.2974, April 2013.
54. S Clarke, B Daniel, J McKenney, M Saranathan, B Hargreaves, J Brooks, H Gill, M Gonzalgo, B Chung, **E Saritas**, A Shankaranarayanan, G Sommer. “Prostate Cancer Localization Using Multi-Parametric MRI and a Maximum Likelihood Classification Algorithm”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.3405, April 2013.
55. N Korn, J Kurhanewicz, S Banerjee, **E Saritas**, SM Noworolski. “Reduced FOV Decreases Susceptibility Artifact in Diffusion-Weighted MRI for Prostate Cancer Detection”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.1779, April 2013.
56. LJ Wilmes, C-L Liu, DC Newitt, S Banerjee, RL McLaughlin, E Proctor, **EU Saritas**, A Shankaranarayanan, NM Hylton. “Comparison of a High Spatial Resolution DTI Sequence to Standard DTI for Evaluating Fractional Anisotropy of Breast Tumors”, *Proc of the 21st Annual Meeting of ISMRM*, Salt Lake City, UT, p.202, April 2013.
57. **EU Saritas**, PW Goodwill, D Chang, SM Conolly. “Effects of Frequency and Pulse Duration on Magnetostimulation Limits for MPI”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
58. E Yu, **EU Saritas**, SM Conolly. “Comparison of Magnetostimulation Limits for Axial and Transverse Drive Fields in MPI”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
59. PW Goodwill, LR Croft, JJ Konkle, K Lu, **EU Saritas**, B Zheng, SM Conolly. “A 7T/m 3D X-space MPI Mouse and Rat Scanner”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
60. JJ Konkle, PW Goodwill, **EU Saritas**, SM Conolly. “Twenty-Fold Acquisition Time Improvement in 3D Projection Reconstruction MPI”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
61. K Lu, PW Goodwill, B Zheng, **EU Saritas**, SM Conolly. “Toward Multidimensional X-space Magnetic Particle Imaging for Improved Resolution”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.

62. B Zheng, T Vazin, W Yang, PW Goodwill, **EU Saritas**, LR Croft, D Schaffer, SM Conolly. “Quantitative Stem Cell Imaging with Magnetic Particle Imaging”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
63. LR Croft, PW Goodwill, D Price, **EU Saritas**, A Li, SM Conolly. “Effects of Scanning Rate on Relaxation-Induced Blurring in Magnetic Particle Image”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
64. W Yang, B Zheng, T Vazin, PW Goodwill, **EU Saritas**, D Schaffer, SM Conolly. “In vivo Magnetic Nanoparticle Cytometer for Stem Cells in Small Animals”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
65. D Price, LR Croft, **EU Saritas**, PW Goodwill, SM Conolly. “Large Tip Solution to Dynamic Langevin Equation for MPI”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
66. L Drews, LR Croft, H Kosuge, **EU Saritas**, PW Goodwill, M McConnell, SM Conolly, M Tirrell. “Imaging Atherosclerotic Plaques In Vivo using Peptide-Functionalized Iron Oxide Nanoparticles”, *Proc of the 3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, March 2013.
67. **EU Saritas**, PW Goodwill, GZ Zhang, W Yu, SM Conolly. “Safety Limits for Human-Size Magnetic Particle Imaging Systems”, *Proc of the 2nd International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, March 2012.
68. PW Goodwill, LR Croft, JK Konkle, K Lu, **EU Saritas**, B Zheng, SM Conolly. “Third Generation X-space MPI Mouse and Rat Scanner”, *Proc of the 2nd International Workshop on Magnetic Particle Imaging*, Lubeck, Germany, March 2012.
69. DC Karampinos, G Melkus, TP Shepherd, S Banerjee, **EU Saritas**, A Shankaranarayanan, CP Hess, TM Link, WB Dillon, S Majumdar. “In plane T2 mapping and diffusion tensor imaging of lumbar nerve roots using a reduced-FOV acquisition”, *Proc of the 20th Annual Meeting of ISMRM*, Melbourne, p.53, May 2012.
70. LJ Wilmes, RL McLaughlin, S Sinha, DC Newitt, L Singer, E Proctor, D Wisner, **EU Saritas**, A Shankaranarayanan, S Banerjee, BN Joe, NM Hylton. “High-resolution DWI for Characterizing Breast Tumor Response to Treatment”, *Proc of the 20th Annual Meeting of ISMRM*, Melbourne, p.1467, May 2012.
71. JB Andre, **EU Saritas**, ST Komakula, J Rosenberg, DG Nishimura, G Zaharchuk, NJ Fischbein. “Clinical Evaluation of Reduced Field of View Diffusion-weighted Imaging of the Human Spinal Cord”, *Proc of the RSNA 97th Scientific Assembly and Annual Meeting*, Chicago, IL, November 2011.
72. **EU Saritas**, PW Goodwill, GZ Zhang, SM Conolly. “Translation to Human-Size Magnetic Particle Imaging Systems: Magnetostimulation Limits”, *Proc of the 4th World Molecular Imaging Congress*, San Diego, CA, September 2011.
73. PW Goodwill, LR Croft, JJ Konkle, B Zheng, K Lu, **EU Saritas**, SM Conolly. “Theory and Hardware of X-Space Magnetic Particle Imaging”, *Proc of the 4th World Molecular Imaging Congress*, San Diego, CA, September 2011.
74. **EU Saritas**, A Shankaranarayanan, G Zaharchuk, DG Nishimura. “Reduced-FOV Single-Shot Diffusion-Weighted EPI: Extended Slice Coverage with Tailored RF Pulse Design”, *Proc of the 19th Annual Meeting of ISMRM*, Montreal, p.1953, May 2011.
75. Z Xiao, A Shankaranarayanan, **EU Saritas**, H Shen, G Cao. “Noninvasive Evaluation of Renal Oxygen Extraction Fraction via Reduced-FOV Asymmetric Spin Echo Approach”, *Proc of the 19th Annual Meeting of ISMRM*, Montreal, p.2952, May 2011.
76. L Singer, LJ Wilmes, **EU Saritas**, A Shankaranarayanan, E Proctor, D Wisner, B Chang, BN Joe, DG Nishimura, NM Hylton. “Reduced Field-of-View Diffusion-Weighted Imaging in Patients with Invasive Breast Cancer”, *Proc of the 19th Annual Meeting of ISMRM*, Montreal, p.3075, May 2011.

77. **EU Saritas**, G Zaharchuk, A Shankaranarayanan, M Aksoy, R Bammer, NJ Fischbein, M Boakye, DG Nishimura. “High-Resolution DTI Tractography of the Spinal Cord with Reduced-FOV Single-Shot EPI at 3T”, *Proc of the 18th Annual Meeting of ISMRM*, Stockholm, p.3976, May 2010.
78. **EU Saritas**, D Lee, A Shankaranarayanan, DG Nishimura. “Hadamard Slice-Encoding for Reduced-FOV Single-Shot Diffusion-Weighted EPI”, *Proc of the 18th Annual Meeting of ISMRM*, Stockholm, p.189, May 2010.
79. A Shankaranarayanan, **EU Saritas**, DG Nishimura, W Chen, E Han. “In vivo MR High Resolution T1rho Mapping of the Spine at 3T Using a Reduced-FOV Approach”. *Proc of the 18th Annual Meeting of ISMRM*, Stockholm, p.465, May 2010.
80. G Zaharchuk, **EU Saritas**, JB Andre, A Shankaranarayanan, NJ Fischbein, DG Nishimura, M Boakye. “High-Resolution Spinal Cord Diffusion Tensor Imaging of Normal Subjects and Spinal Cord Injury Patients Using Reduced Field-of-View Single-Shot Echo Planar Imaging”. *Proc of the ASNR 48th Annual Meeting*, Boston, 2010.
81. **EU Saritas**, A Shankaranarayanan, ET Han, JK Barral, JH Lee, DG Nishimura. “High-Resolution DWI outside the CNS using Reduced-FOV Single-Shot EPI”. *Proc of the 17th Annual Meeting of ISMRM*, Honolulu, p.166, April 2009.
82. **EU Saritas**, A Shankaranarayanan, DG Nishimura. “Hadamard Slice Encoding for Reduced-FOV Single-Shot Diffusion-Weighted EPI”. *Proc of the 17th Annual Meeting of ISMRM*, Honolulu, p.1382, April 2009.
83. **EU Saritas**, K-P Hwang, ET Han, JH Lee, DG Nishimura, A Shankaranarayanan. “Comparison of Reduced-FOV Single-Shot EPI Methods for DWI: ZOOM-EPI vs. 2D Echo-Planar RF Excitation”. *Proc of the 17th Annual Meeting of ISMRM*, Honolulu, p.1379, April 2009.
84. G Zaharchuk, **EU Saritas**, A Shankaranarayanan, DG Nishimura, NJ Fischbein. “Clinical Evaluation of Reduced Field-of-View Diffusion Imaging of the Human Spinal Cord”. *Proc of the 17th Annual Meeting of ISMRM*, Honolulu, p.3180, April 2009.
85. **EU Saritas**, JH Lee, DG Nishimura. “Effects of T₂-Weighting on Optimum b-Value vs. SNR for ADC Measurements”. *Proc of the 16th Annual Meeting of ISMRM*, Toronto, p.1798, May 2008.
86. **EU Saritas**, CH Cunningham, JH Lee, ET Han, DG Nishimura. “High-Resolution Axial DWI of the Spinal Cord with Reduced-FOV Single-Shot EPI”. *Proc of the 16th Annual Meeting of ISMRM*, Toronto, p.760, May 2008.
87. **EU Saritas**, JH Lee, DG Nishimura. “Optimum b-Value vs. SNR for Apparent Diffusion Coefficient Measurements”. *Proc of the 15th Annual Meeting of ISMRM*, Berlin, p.1508, May 2007.
88. **EU Saritas**, C.H. Cunningham, JH Lee, DG Nishimura. “DWI of the Spinal Cord with Limited FOV Single-Shot EPI”. *Proc of the 14th Annual Meeting of ISMRM*, Seattle, p.3446, May 2006.

INVITED TALKS

- “Women in Engineering”, *Turkey’s Engineer Girls - High School Project*, Antalya, Turkey, 22 March 2018.
- “Magnetic Particle Imaging: Applications and Magnetic Field Safety Limits”, *Seminar Series of IEEE AP/MTT/EMC/ED Turkey Joint Seminar*, Middle East Technical University (METU), Ankara, Turkey, 27 October 2017.
- “fMRG, DTG Sekanslari ve Goruntu Artefaktlari”, *TMRD 22. Yillik Bilimsel Toplantisi, Fonksiyonel MRG Kursu*, Ankara, Turkey, 25 May 2017.
- “DTG Teknikleri”, *TMRD 22. Yillik Bilimsel Toplantisi, Fonksiyonel MRG Kursu*, Ankara, Turkey, 25 May 2017.
- “Manyetik Parcacik Goruntuleme: Demir Oksit Nanoparacaciklari ile Yeni Bir Biyomedikal Goruntuleme Teknolojisi”, *3. Konsultasyon Liyezon Psikiyatrisi Sempozyumu*, Ankara University and Yildirim Beyazit University Medical Schools, Ankara, Turkey, 3 May 2017.

- “Case Study: FOCUS”, in **Educational Session** titled “Prototype to Product: Pathways to Commercialization”, *25th Annual Meeting of ISMRM*, Hawaii, USA, 26 April 2017.
- “Magnetic Particle Imaging”, in **Educational Session** titled “Low Field MR: Systems & Applications”, *25th Annual Meeting of ISMRM*, Hawaii, USA, 25 April 2017.
- “Career Stalking: Academic Career in Engineering”, *Bilkent IEEE Student Branch*, Bilkent, Ankara, Turkey, 12 April 2017.
- “Magnetic Particle Imaging: A New Imaging Modality for Angiography, Cell Tracking, and Cancer Imaging”, Molecular Biology and Genetics Departmental Seminar, Bilkent University, Ankara, Turkey, 29 March 2017.
- “Magnetic Particle Imaging: A New Imaging Modality for Angiography, Cell Tracking, and Cancer Imaging”, *Institute of Neurological Sciences and Psychiatry*, Hacettepe University, Ankara, Turkey, 9 March 2017.
- “Women in Engineering”, *Girls can STEM Project*, Cer Modern, Ankara, Turkey, 8 March 2017.
- “Biyomedikal Goruntuleme Teknolojilerinde Trendler ve Yenilikci Teknikler”, *FABAD (Farmasotik Bilimler Ankara Dernegi) Conference Series*, Hacettepe University, Ankara, Turkey, 15 December 2016.
- “Safety Limits in MPI and Implications for Image Quality”, **Keynote Speech**, *6th International Workshop on Magnetic Particle Imaging (IWMPPI)*, Luebeck, Germany, March 16-18, 2016.
- “High Resolution Magnetic Particle Imaging”, Aselsan 1. Saglik Teknolojileri Calistayi, Ankara, Turkey, December 9, 2015.
- “High Resolution Diffusion MRI / Magnetic Particle Imaging”, *Emerging Concepts in Advanced Imaging of Neurodegenerative Diseases Workshop*, Istanbul, Turkey, October 18-20, 2015.
- “Yeni Bir Biyomedikal Goruntuleme Yontemi: Manyetik Parcacik Goruntuleme”, *Gulhane Biyomedikal Gunleri Ulusal Sempozyumu*, Ankara, Turkey, May 22, 2015.
- “Yeni Bir Biyomedikal Goruntuleme Teknigi: Manyetik Parcacik Goruntuleme”, *Bilkent Universitesi - ASO Saglik Odakli Universite Sanayi Isbirligi Calistayi*, Ankara, Turkey, April 2, 2015.
- “Applications of MRI: Diffusion Weighted Imaging”, *Nuclear Magnetic Resonance (NMR) Workshop*, Ankara, Turkey, October 10, 2013.
- “High-Resolution Diffusion MRI / Magnetic Particle Imaging”, *Koc University*, Istanbul, Turkey, September 10, 2012.
- “X-Space Magnetic Particle Imaging”, *Bioimaging Symposium*, Santa Clara University, August 17, 2012.
- “High-Resolution Diffusion MRI / Magnetic Particle Imaging”, *Middle East Technical University (METU)*, Ankara, Turkey, March 30, 2012.
- “High-Resolution Diffusion MRI / Magnetic Particle Imaging”, *Sabanci University*, Istanbul, Turkey, March 21, 2012.
- “High-Resolution Diffusion MRI / Magnetic Particle Imaging”, *Bogazici University*, Istanbul, Turkey, March 20, 2012.
- “High-Resolution Diffusion MRI / Magnetic Particle Imaging”, *Bilkent University*, Ankara, Turkey, July 19, 2011.
- “Stem Cell Tracking with Magnetic Particle Imaging: Early Data and Safety Limits”, *Berkeley Stem Cell Center Retreat*, Asilomar, CA, May 1, 2011.
- “High-Resolution Diffusion MRI with Reduced-FOV Single-Shot EPI”, *University of California at San Francisco*, CA, June 17, 2010.

- COURSES TAUGHT
- EEE-475 / EEE-575 Medical Image Reconstruction and Processing: Spring 2017.
 - EEE-473 / EEE-573 Medical Imaging: Spring 2015, Spring 2016, Fall 2016, Fall 2017.
 - EEE-211 Analog Electronics: Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Fall 2017, Spring 2018.
 - EEE-202 Circuit Theory: Fall 2016, Spring 2017, Spring 2018.
 - MATH-242 Engineering Mathematics II: Spring 2014.
 - EEE-591 / EEE-592 Graduate Seminar: Fall 2013, Fall 2014.
- CONFERENCE ORGANIZATION
- Conference Chair, *5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, March 2015. (website: www.iwmpi.org)
 - Organizing Committee Member and Scientific Committee Member, *Third Magnetic Resonance Balkan Outreach Program*, Ankara, Turkey, 22-24 May 2014. (website: www.mrbalkan.org)
 - General Chair, *25th Graduate Research Conference*, Department of Electrical and Electronics Engineering, Bilkent University, 14 March 2014.
 - Co-chair and Publications Chair, *3rd International Workshop on Magnetic Particle Imaging*, Berkeley, CA, 23-24 March 2013. (website: iwmpi.berkeley.edu)
- CONFERENCE COMMITTEES
- Program Committee Member, *8th International Workshop on Magnetic Particle Imaging*, Hamburg, Germany, 22-24 March 2018.
 - Program Committee Member, *SPIE Medical Imaging 2018* Houston, TX, USA, 10-15 February 2018.
 - Scientific Committee Member, *21st National Biomedical Engineering Meeting (BIYOMUT 2017)*, Istanbul, Turkey, 24-26 November 2017.
 - Technical Committee Member, *IEEE 25th Signal Processing and Communication Applications General Assembly (SIU 2017)*, Antalya, Turkey, 15-18 May 2017.
 - Program Committee Member, *7th International Workshop on Magnetic Particle Imaging*, Prague, Czech Republic, 23-24 March 2017.
 - Program Committee Member, *6th International Workshop on Magnetic Particle Imaging*, Luebeck, Germany, 16-18 March 2016.
 - Technical Committee Member, *IEEE 23rd Signal Processing and Communication Applications General Assembly (SIU 2015)*, Malatya, Turkey, 16-19 May 2015.
 - Technical Committee Member, *IEEE 22nd Signal Processing and Communication Applications General Assembly (SIU 2014)*, Trabzon, Turkey, 23-25 April 2014.
 - Program Committee Member, *4th International Workshop on Magnetic Particle Imaging*, Berlin, Germany, 27-29 March 2014.
- MEMBERSHIPS
- International Society of Magnetic Resonance in Medicine (ISMRM), since 2003.
 - Institute of Electrical and Electronics Engineering (IEEE), since 1999.
 - Turk Manyetik Rezonans Dernegi (Turkish Magnetic Resonance Society), since 2014.
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