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CONTACT INFORMATION

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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 - Jan. 2010.

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

Associate Professor, July 2020 - Present.

Assistant Professor, Sept. 2013 - July 2020.

Associate Director of UMRAM, Aug. 2018 - 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.

OTHER ACADEMIC
DUTIES

- Associate Editor for *IEEE Transactions on Medical Imaging*, Jan. 2016 - May 2022.
- Editorial Board Member for *Scientific Reports*, Nature Publishing Group, Dec. 2014 - Feb. 2019.
- Editorial Board Member for *International Journal on Magnetic Particle Imaging*, Infinite Science Publishing, since November 2015.
- Chair of Engineering in Medicine & Biology (EMB), IEEE Turkey Section, since January 2021.
- Treasurer of ISMRM Turkish Chapter, since March 2021.
- Chair of Women in Engineering, IEEE Turkey Section, April 2016 - January 2020.

HONORS AND
AWARDS

- Research Incentive Award, IEEE Turkey, December 2020.
- Research Incentive Award, METU Prof. Dr. Mustafa N. Parlak Education and Research Foundation, December 2020.
- TUBITAK Incentive Award, The Scientific and Technological Research Council of Turkey, August 2019.
- Distinguished Teaching Award, Bilkent University, June 2018.
- Scientist of the Year Award, Science Heroes Association (Bilim Kahramanlari Dernegi), May 2017.
- Young Scientist Award (BAGEP), The Science Academy, Turkey (Bilim Akademisi), 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

- “Nanoparticle Fingerprinting for Cancer Imaging with Magnetic Particle Imaging”, **Principal Investigator**, TUBITAK 1001 Project, 120E208, 2021-2024.
- “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, 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.
- “PDT-MRI molecular theranostics: phthalocyanines bearing 4, 8, 20 and 40 TEMPO units”, **Consultant** (Principle Investigator: Derya Topkaya Taskiran), TUBITAK 1001 Project, 119Z095, 2019-2023.
- “Development of New Medical Imaging Instrument Based On Magnetic Particle Imaging (MPI)”, **Consultant** (Principle Investigator: Ayhan Bingolbali), TUBITAK 1003 Project, 119Z095, 2017-2021.
- “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.

PATENTS

- **EU Saritas**, CB Top, S Ilbey, A Gungor, HE Guven, T Cukur. “Method of Calibrating Magnetic Particle Imaging System. PCT Patenti, WO2019216839A1. Status: Applied, 2019.
- **EU Saritas**, S Banerjee. “System and Method for Reduced Field of View Magnetic Resonance Imaging”. US Patent, US 9664762 B2. Status: Granted, 2017.

BOOK CHAPTERS

- P Chandrasekharan, ZW Tay, XY Zhou, EY Yu, BKL Fung, C Colson, BD Fellows, Y Lu, Q Huynh, C Saayujya, P Keselman, D Hensley, K Lu, R Orendorff, J Konkle, **EU Saritas**, B Zheng, P Goodwill, S Conolly. “Magnetic Particle Imaging for Vascular, Cellular and Molecular Imaging”. p.265-281, In *Molecular Imaging Principles and Practice*, 2nd Edition, ISBN:9780128163863, Academic Press, August 2021.
- **EU Saritas**, SJ Holdsworth, R Bammer. “Susceptibility Artifacts in Spinal Cord”. p.91-105, In *Quantitative MRI of the Spinal Cord*, ISBN:9780123969736, Academic Press, January 2014.

1. F Wegner, K Ludtke-Buzug, Sjeff Cremers, T Friedrich, MM Sieren, J Haegele, MA Koch, **EU Saritas**, P Borm, TM Buzug, J Barkhausen, M Ahlborg. “Bimodal Interventional Instrument Markers for Magnetic Particle Imaging and Magnetic Resonance Imaging A Proof of Concept Study”, *Nanomaterials*, 12(10):1758, 2022.
2. M Yavuz, M Utkur, E Sahin Kehribar, E Yagiz, **EU Saritas**, UOS Seker. “Engineered Bacteria with Genetic Circuits Accumulating Nanomagnets as MRI Contrast Agents”, *Small*, 2022. DOI: 10.1002/smll.202200537.
3. E Ilicak, **EU Saritas**, T Cukur. “Automated Parameter Selection for Accelerated MRI Reconstruction via Low-Rank Modeling of Local k-Space Neighborhoods”, *Z Med Phys*, 2022. DOI: 10.1016/j.zemedi.2022.02.002.
4. M Utkur, **EU Saritas**. “Simultaneous Temperature and Viscosity Estimation Capability via Magnetic Nanoparticle Relaxation”, *Med Phys*, 49(4):2590-2601, 2022.
5. OC Eren, BA Barlas, **EU Saritas**. “2D RF Pulse Design for Optimized Reduced Field-of-view Imaging at 1.5T and 3T”, *Magnetic Resonance Imaging*, 85:210-216, 2022.
6. E Yagiz, AR Cagil, **EU Saritas**. “Non-ideal Selection Field Induced Artifacts in X-Space MPI”, *International Journal on Magnetic Particle Imaging*, 6(2):2006001, 2020.
7. M Shafiei Aporvari, M Utkur, **EU Saritas**, G Volpe, J Stenhammar. “Anisotropic Dynamics of a Self-Assembled Colloidal Chain in an Active Bath”, *Soft Matter*, 16:5609-5614, 2020. DOI: 10.1039/D0SM00318B
8. S Kurt, Y Muslu, **EU Saritas**. “Partial FOV Center Imaging (PCI): A Robust X-Space Image Reconstruction for Magnetic Particle Imaging”, *IEEE Trans Med Imag*, 30(11):3441-3450, 2020.
9. OB Demirel, T Kilic , T Cukur, **EU Saritas**. “Anatomical Measurements Correlate with Individual Magnetostimulation Thresholds for kHz-range Homogeneous Magnetic Fields”, *Med Phys*, 47(4):1836-1844, 2020.
10. E Kopanoglu, A Gungor, T Kilic, **EU Saritas**, KK Oguz, T Cukur, HE Guven. “Simultaneous use of Individual and Joint Regularization Terms in Compressive Sensing: Joint Reconstruction of Multi-Channel Multi-Contrast MRI Acquisitions”, *NMR Biomed*, 33(4):e4247, 2020.
11. M Utkur, Y Muslu, **EU Saritas**. “Relaxation-Based Color Magnetic Particle Imaging for Viscosity Mapping”, *Appl Phys Lett*, 115(15):152403, 2019.
12. AA Ozaslan, A Alacaoglu, OB Demirel, T Cukur, **EU Saritas**. “Fully Automated Grid-
ding Reconstruction for Non-Cartesian X-Space Magnetic Particle Imaging”. *Phys Med Biol*, 64(16):165018, 2019.
13. S Ilbey, CB Top, A Gungor, T Cukur, **EU Saritas***, HE Guven* (*co-senior authors). “Fast System Calibration with Coded Calibration Scenes for Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 38(8):2070-2080, 2019.
14. LK Senel, T Kilic, A Gungor, E Kopanoglu, HE Guven, **EU Saritas**, A Koc, T Cukur. “Statistically Segregated k-Space Sampling for Accelerating Multiple-Acquisition MRI”. *IEEE Trans Med Imag*, 38(7):1701-1714, 2019.
15. M Shahdloo, E Ilicak, M Tofighi, **EU Saritas**, AE Cetin, T Cukur. “Projection onto Epigraph Sets for Rapid Self-Tuning Compressed Sensing MRI”. *IEEE Trans Med Imag*, 38(7):1677-1689, 2019.
16. **EU Saritas**. “Novel Techniques in Instrumentation, Image Reconstruction, and Applications in Magnetic Particle Imaging”. Guest Editorial, *International Journal on Magnetic Particle Imaging*, 4(2):1903001, 2018.
17. Y Muslu, M Utkur, OB Demirel, **EU Saritas**. “Calibration-Free Relaxation-Based Multi-Color Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 37(8):1920-1931, 2018.
18. 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.

19. 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.
20. 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.
21. 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.
22. 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.
23. OB Demirel, **EU Saritas**. “Effects of Duty Cycle on Magnetostimulation Thresholds in MPI”, *International Journal on Magnetic Particle Imaging*, 3(1):1703010, 2017.
24. M Utkur, Y Muslu, **EU Saritas**. “Relaxation-based viscosity mapping for magnetic particle imaging”. *Phys Med Biol*, 62(9):3422-3439, 2017.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. **EU Saritas**, PW Goodwill, SM Conolly. “Effects of Pulse Duration on Magnetostimulation Thresholds”. *Med Phys* 42(6):3005-3012, 2015.
33. 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.
34. 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.
35. **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.
36. 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.
37. **EU Saritas**, PW Goodwill, GZ Zhang, SM Conolly. “Magnetostimulation Limits in Magnetic Particle Imaging”. *IEEE Trans Med Imag*, 32(9):1600-1610, 2013.

38. 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.
39. 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.
40. 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.
41. **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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. **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.
48. 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.
49. **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.
50. 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. E Aygun, **EU Saritas**. "Performance Analysis of Undersampling Strategies for Multi-Shell Diffusion MRI, *Proc of the 30th Annual Meeting of ISMRM*, London, UK, p. 2700, May 2022.
2. BA Barlas, **EU Saritas**. "Making Reduced FOV Imaging Applicable on Low-Cost MRI Systems: A Sheared 2DRF Excitation Approach, *Proc of the 30th Annual Meeting of ISMRM*, London, UK, p. 2930, May 2022.
3. A Zaid Alkilani, T Cukur, **EU Saritas**. "A Deep Forward-Distortion Model for Unsupervised Correction of Susceptibility Artifacts in EPI, *Proc of the 30th Annual Meeting of ISMRM*, London, UK, p. 959, May 2022.

4. MT Arslan, **EU Saritas**. “Rapid TAURUS for Real-Time Color MPI: A Feasibility Study, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203060, March 2022.
5. E Ergun, AO Arol, **EU Saritas**, T Cukur. “A Deblurring Model for X-space MPI Based on Coded Calibration Scenes, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203016, March 2022.
6. E Kor, MT Arslan, **EU Saritas**. “Saturation Coil for Localized Signal Suppression in MPI, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203013, March 2022.
7. B Alyuz, MT Arslan, M Utkur, **EU Saritas**. “An Arbitrary Waveform MPI Scanner, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203077, March 2022.
8. A Topcu, A Alpman, M Utkur, **EU Saritas**. “Vicinity Effects of Field Free Point on the Relaxation Behavior of MNPs, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203055, March 2022.
9. A Alpman, M Utkur, **EU Saritas**. “MNP Characterization and Signal Prediction using a Model-Based Dictionary, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203017, March 2022.
10. AA Ozaslan, M Utkur, U Canpolat, MA Tuncer, K Karli Oguz, **EU Saritas**. “PNS Limits for Human Head-Size MPI Systems: Preliminary Results, *Proc of the 11th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2203028, March 2022.
11. I Aytekin, O Dalmaz, H Ankishan, **EU Saritas**, U Bagci, T Cukur, H Celik. “Detecting COVID-19 from Respiratory Sound Recordings with Transformers, *Proc of SPIE Medical Imaging*, San Diego, USA, p. 1203306, March 2022.
12. E Aygun, **EU Saritas**. “Comparison of Diffusion Metrics under Different Undersampling Strategies for Multi-Shell Diffusion MRI, *Proc of the 2021 Medical Technologies Congress (TIPTEKNO)*, Antalya, Turkey, Nov 2021.
13. M Utkur, **EU Saritas**. “Non-invasive and Simultaneous Temperature and Viscosity Estimation in Magnetic Particle Imaging via Relaxation Characterization of Iron Oxide Nanoparticles, *Proc of World Molecular Imaging Congress (WMIC)*, Virtual Conference, October 2021.
14. BA Barlas, CD Bahadir, SG Kafali, U Yilmaz, **EU Saritas**. “Off-resonance Robustness in Reduced FOV Imaging using Sheared 2DRF Excitation, *Proc of the 29th Annual Meeting of ISMRM*, Virtual Conference, p. 779, May 2021.
15. E Aygun, AR Cagil, **EU Saritas**. “1:1 Scale Agar-Agar Paramagnetic Phantom for Brain and Cervical Spine MRI, *Proc of the 29th Annual Meeting of ISMRM*, Virtual Conference, p. 3355, May 2021.
16. B Tasdelen, M Utkur, E Atalar, **EU Saritas**. “Vector Modulator Based Automated Active Compensation of Direct Feedthrough in Magnetic Particle Imaging, *Proc of the 29th Annual Meeting of ISMRM*, Virtual Conference, p. 4266, May 2021.
17. AA Ozaslan, MT Arslan, **EU Saritas**. “Image Reconstruction with Relaxation Estimation for Non-Cartesian Magnetic Particle Imaging”, *Proc of the 28th IEEE Signal Processing and Communications Applications Conference (SIU)*, Virtual Conference, p. 1874, October 2020.
18. OB Demirel, T Kilic, T Cukur, **EU Saritas**. “Simple Anatomical Measures Correlate with Individual PNS Thresholds for kHz-range Homogeneous Magnetic Fields”, *Proc of the 28th Annual Meeting of ISMRM*, Virtual Conference, p. 1127, August 2020.
19. AO Arol, AA Ozaslan, A Alpman, **EU Saritas**. “Parameter Robustness Analysis for System Function Reconstruction”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009045, September 2020.
20. AA Ozaslan, AR Cagil, M Graeser, T Knopp, **EU Saritas**. “Design of a Magnetostimulation Head Coil with Rutherford Cable Winding”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009063, September 2020.

21. B Tasdelen, E Yagiz, M Utkur, AR Cagil, CB Top, E Atalar, **EU Saritas**. “Vector Modulator Based Active Compensation of Direct Feedthrough”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009065, September 2020.
22. E Yagiz, M Utkur, CB Top, **EU Saritas**. “Magnetic Particle Fingerprinting using Arbitrary Waveform Relaxometer”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009039, September 2020.
23. HSM Erol, AA Ozaslan, **EU Saritas**. “Fusion of Overlapping Patches in X-Space MPI”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009069, September 2020.
24. MT Arslan, S Kurt, AA Ozaslan, Y Muslu, **EU Saritas**. “Rapid Relaxation-Based Color MPI”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009040, September 2020.
25. M Utkur, **EU Saritas**. “Temperature Mapping via Relaxation-Based Color MPI”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009066, September 2020.
26. AR Cagil, B Tasdelen, **EU Saritas**. “Design of a Doubly Tunable Gradiometer Coil”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009064, September 2020.
27. S Kurt, V Abdulla, **EU Saritas**. “Multi-dimensional Harmonic Dispersion X-space MPI”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 2009062, September 2020.
28. S Kurt, Y Muslu, **EU Saritas**. “Blind Source Separation for Multi-Color MPI”, *Proc of the 10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, p. 20090658, September 2020.
29. E Kopanoglu, A Gungor, T Kilic, **EU Saritas**, K Oguz, Tolga Cukur, HE Guven. “Multi-channel Multi-contrast Reconstructions via Simultaneous Use of Individual and Joint Regularization Terms”, *Proc of the 27th Annual Meeting of ISMRM*, Montreal, Canada, p. 4748, May 2019.
30. E Yagiz, M Utkur, OC Eren, **EU Saritas**. “Selection-Field-Induced Warping in X-Space MPI”, *Proc of the 9th International Workshop on Magnetic Particle Imaging*, New York, NY, USA, p. 185-186, March 2019.
31. M Utkur, **EU Saritas**. “Confounding Effects of Temperature and Viscosity Towards Relaxation Mapping”, *Proc of the 9th International Workshop on Magnetic Particle Imaging*, New York, NY, USA, p. 223-224, March 2019.
32. AO Arol, AA Ozaslan, S Kurt, T Cukur, **EU Saritas**. “A Super-Resolution Network for MPI”, *Proc of the 9th International Workshop on Magnetic Particle Imaging*, New York, NY, USA, p. 45-46, March 2019.
33. AR Cagil, **EU Saritas**. “A Preclinical Field Free Point/Field Free Line Hybrid MPI Scanner”, *Proc of the 9th International Workshop on Magnetic Particle Imaging*, New York, NY, USA, p. 7-8, March 2019.
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41. 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.
42. 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, p. 315-318, April 2018.
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44. 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.
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48. 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.
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64. 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.
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75. 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.
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81. 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.
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83. 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.
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92. **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, USA, March 2013.
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INVITED TALKS

- “Relaxation-Based Color Magnetic Particle Imaging for Temperature and Viscosity Mapping” in **Minisymposium** titled “New Perspectives for Reconstruction and Modeling in Magnetic Particle Imaging”, *SIAM 2022 Conference on Imaging Science*, Virtual Conference, 24 March 2022.
- “Magnetic Particle Imaging: A Novel Imaging Technology for Cancer Imaging and Treatment Monitoring”, *Bogazici Biyoteknoloji Zirvesi*, Virtual Conference, 13 November 2021.
- “Magnetic Particle Imaging for Cancer Imaging and Treatment Monitoring”, *Bogazici University - EEE Seminar Series*, Virtual Seminar, 4 November 2021.
- “Magnetic Particle Imaging & Diffusion Weighted Magnetic Resonance Imaging”, *ISMRM Turkish Chapter Event at TMRD 25th Annual Meeting*, Virtual Conference, 24 September 2021.
- “Magnetic Particle Imaging for Simultaneous Temperature and Viscosity Mapping”, *1st International Workshop on Nanoparticle Applications*, Virtual Conference, 24 September 2021.
- “Magnetic Particle Imaging: A Novel Technology for Cancer Imaging and Treatment Monitoring”, *IEEE EMBCON*, Virtual Conference, 8 May 2021.
- “Magnetic Particle Imaging”, *TipTekno Medical Technologies Congress*, Virtual Conference, 19 November 2020.
- “Women in Academia”, *Bilkent IEEE Student Branch*, Virtual Meeting, 19 November 2020.
- “MRI Safety Highlights”, in **Highlights Session** titled “Interventional, Engineering & Safety”, *28th Annual Meeting of ISMRM*, Virtual Conference, 14 August 2020.
- TUBITAK Bilim Genc Kafe, Invited Speaker, Ankara, Turkey, 11 February 2020.

- “Magnetic Particle Imaging for Radiation-Free Functional Imaging, *Seminar Series of IEEE AP/MTT/EMC/ED Turkey Joint Section*, Middle East Technical University (METU), Ankara, Turkey, 6 December 2019.
- “Cancer Imaging and Therapy Monitoring with Magnetic Particle Imaging”, in “New Medical Imaging Techniques: From Laboratory to Clinics” Session, *40th Radiology Congress TURKRAD 2019*, Antalya, Turkey, 8 November 2019.
- “Women in Engineering”, *Turkey’s Engineer Girls - High School Project*, Antalya, Turkey, 22 March 2018.
- “Trends and New Techniques in Medical Imaging Technologies”, *Technology Society and Professional Development Seminar*, Bilkent University, Ankara, Turkey, 20 February 2018.
- “Magnetic Particle Imaging: Applications and Magnetic Field Safety Limits”, *Seminar Series of IEEE AP/MTT/EMC/ED Turkey Joint Section*, 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 (IWMPI)*, 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.
- “Magnetic Fields in Medical Imaging: Safety Limits for Humans”, *Electrical and Electronics Engineering Graduate Seminar Series*, Bilkent University, Ankara, Turkey, May 12, 2015.
- “Yeni Bir Biyomedikal Goruntuleme Teknigi: Manyetik Parcacik Goruntuleme”, *Bilkent Universitesi - ASO Saglik Odakli Universite Sanayi Isbirligi Calistayi*, Ankara, Turkey, April 2, 2015.
- “Human Safety Limits of MRI and MPI”, *Third Magnetic Resonance Balkan Outreach Program*, Ankara, Turkey, May 24, 2014.

- “High Resolution Diffusion MRI of Targeted Regions”, *Third Magnetic Resonance Balkan Outreach Programs*, Ankara, Turkey, May 23, 2014.
- “Trends in Medical Imaging Technologies”, *Technology Society and Professional Development Seminar*, Bilkent University, Ankara, Turkey, April 1, 2014.
- “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, Spring 2020, Spring 2022.
- EEE-473 / EEE-573 Medical Imaging: Spring 2015, Spring 2016, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021.
- EEE-211 Analog Electronics: Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Fall 2017, Spring 2018, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Spring 2022.
- EEE-202 Circuit Theory: Fall 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021.
- MATH-242 Engineering Mathematics II: Spring 2014.
- EEE-591 / EEE-592 Graduate Seminar: Fall 2013, Fall 2014.

PAST ADVISEES

- Mehdi Shafiei Aporvari, *Postdoctoral Fellow*, “Controlling Magnetic Nanoparticle Propulsion using Magnetic Fields in Complex Active Media”, **Supervisor**, April 2016 - November 2021.
- Mustafa Utkur, *Ph.D. Thesis*, “Cancer Imaging and Treatment Monitoring with Color Magnetic Particle Imaging”, **Advisor**, September 2021.
- Ahmet Rahmetullah Cagil, *M.Sc. Thesis*, “A Novel Preclinical Dual-Topology Magnetic Particle Imaging Scanner”, **Advisor**, December 2020.
- Abdullah Omer Arol, *M.Sc. Thesis*, “Parameter Robustness Analysis of System Function Reconstruction and a Novel Deblurring Network for Magnetic Particle Imaging”, **Advisor**, December 2020.
- Ecrin Yagiz, *M.Sc. Thesis*, “Selection Field Induced Artifacts in Magnetic Particle Imaging and a Novel Framework for Nanoparticle Characterization”, **Advisor**, October 2020.
- Semih Kurt, *M.Sc. Thesis*, “Rapid and Robust Image Reconstruction for Magnetic Particle Imaging”, **Advisor**, June 2020.
- Ali Alper Ozaslan, *M.Sc. Thesis*, “Automated Image Reconstruction for Non-Cartesian Magnetic Particle Imaging”, **Advisor**, September 2019.

- Toygan Kilic, *M.Sc. Thesis*, “Rapid Multi-Contrast Magnetic Resonance Imaging and Time-of-Flight Angiography”, **Advisor**, January 2019.
- Serhat Ilbey, *M.Sc. Thesis*, “Fast Calibration and Image Reconstruction for Magnetic Particle Imaging”, **Advisor**, May 2018.
- Sevgi Gokce Kafali, *M.Sc. Thesis*, “Phase-Correcting Denoising for Diffusion Magnetic Resonance Imaging”, **Advisor**, April 2018.
- Yavuz Muslu, *M.Sc. Thesis*, “Relaxation Mapping in Magnetic Particle Imaging”, **Advisor**, January 2018.
- Ecem Bozkurt, *M.Sc. Thesis*, “Effects of Scanning and Reconstruction Parameters on Image Quality in Magnetic Particle Imaging”, **Advisor**, January 2018.
- Kaleivani Thangavel, *Postdoctoral Fellow*, “Magnetic Nanoparticle Characterization for Magnetic Particle Imaging, Magnetic Resonance Imaging, and Magnetic Fluid Hyperthermia”, **Supervisor**, October 2013 - August 2017.
- Omer Burak Demirel, *M.Sc. Thesis*, “Safety Limits & Rapid Scanning Methods in Magnetic Particle Imaging”, **Advisor**, July 2017.
- Damla Sarica, *M.Sc. Thesis*, “Low-Bandwidth Image Reconstruction for Magnetic Particle Imaging”, **Advisor**, June 2017.
- Mustafa Utkur, *M.Sc. Thesis*, “Probing Viscosity via Relaxation in Magnetic Particle Imaging”, **Advisor**, January 2017.

CURRENT ADVISEES

- Musa Tunc Arslan, *Ph.D. Student*, “Rapid Multi-Color Magnetic Particle Imaging”, January 2016 - ongoing.
- Ali Alper Ozaslan, *Ph.D. Student*, “Safety Limits for Human Head Size Magnetic Particle Imaging Systems”, September 2019 - present.
- Sefa Karaca, *M.Sc. Student*, “Hybrid Magnetic Particle Imaging / Magnetic Resonance Imaging Systems”, September 2021 - ongoing.
- Abdallah Ghazi Faisal Zaid Alkilani, *M.Sc. Student*, “Neural Network Based Tensor Reconstruction for Diffusion MRI”, September 2019 - ongoing.
- Elif Aygun, *M.Sc. Student*, “Comparison of Diffusion MRI Techniques for Epilepsy Patients”, September 2019 - ongoing.
- Bahadir Alp Barlas, *M.Sc. Student*, “2DRF Pulse Design for High-Resolution MRI”, September 2019 - ongoing.
- Asli Alpman, *M.Sc. Student*, “A Dictionary-Based Approach for Magnetic Nanoparticle Characterization for Magnetic Particle Imaging”, September 2020 - ongoing.
- Beril Alyuz, *M.Sc. Student*, “An Arbitrary Waveform Magnetic Particle Imaging System”, September 2020 - ongoing.

ADVISEE

ACCOMPLISHMENTS

- 2022 Serhat Ozyar Young Scientist of the Year Award: Mustafa Utkur. Awarded for his PhD thesis titled “Cancer Imaging and Treatment Monitoring with Color Magnetic Particle Imaging”, Orta Dogu Ogretim Elemanlar Dernegi, April 2022.
- Invited Talk: M Utkur (Presenter), EU Saritas. “Temperature and Viscosity Mapping with Relaxation-Based Magnetic Particle Imaging, 55th Asilomar Conference on Signals, Systems, and Computers, Virtual Conference, November 2021.
- Summa Cum Laude Award: Bahadir Alp Barlas. Awarded to top 5% of abstracts at the 29th Annual Meeting of ISMRM, Virtual Conference, May 2021.
- Best Oral Presentation Award: Mustafa Utkur. Awarded to best 5 oral presentations at Graduate Research Conference (GRC), Department of Electrical and Electronics Engineering, Bilkent University, January 2021.
- Magna Cum Laude Award: Omer Burak Demirel. Awarded to top 15% of abstracts at the 28th Annual Meeting of ISMRM, Virtual Conference, August 2020.

- IEEE EMBS Best Student Paper Award: Toygan Kilic. Awarded at the 26th IEEE Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, May 2018.
- Best Paper/Presentation Award: Ecem Bozkurt. Awarded to only one paper at the 21st National Biomedical Engineering Meeting (BIYOMUT), Istanbul, Turkey, November 2017.
- Magna Cum Laude Award: Sevgi Gokce Kafali. Awarded to top 15% of abstracts at the 25th Annual Meeting of ISMRM, Hawaii, USA, April 2017.
- Best Oral Presentation Award: Yavuz Muslu. Awarded to best 3 oral presentations at Graduate Research Conference (GRC), Department of Electrical and Electronics Engineering, Bilkent University, March 2017.
- TUBITAK 2216 - Research Fellowship for International Researchers: Dr. Kalaivani Thangavel. March 2014 - March 2015.
- TUBITAK 2216 - Research Fellowship for International Researchers: Dr. Kalaivani Thangavel. December 2015 - December 2016.

CONFERENCE
ORGANIZATION

- Organizing Committee Member, *ISMRM Turkish Chapter Event at TMRD 25th Annual Meeting*, Virtual Conference, 24 September 2021.
- Organizing Committee Member, *18th National Neuroscience Congress*, Virtual Conference, 6-9 November 2020.
- Meeting Chair, *UMRAM Users Meeting*, Ankara, Turkey, 13 December 2019.
- Organizing Committee Member and Scientific Committee Member, *Novel Medical Imaging Techniques: From Laboratory to Clinics*, Special Workshop in TURKRAD 2019, Antalya, Turkey, 8-9 November 2019.
- Conference Chair, *5th International Workshop on Magnetic Particle Imaging*, Istanbul, Turkey, 26-28 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, *11th International Workshop on Magnetic Particle Imaging*, Wurzburg, Germany, 21-23 March 2022.
- Program Committee Member, *10th International Workshop on Magnetic Particle Imaging*, Virtual Conference, 7-8 September 2020.
- Program Committee Member, *9th International Workshop on Magnetic Particle Imaging*, New York, NY, USA, 17-19 March 2019.
- Program Committee Member, *SPIE Medical Imaging 2019*, San Diego, CA, USA, 16-21 February 2019.
- 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.

ACADEMIC JOURNAL
REVIEWERSHIP

- *IEEE Transactions on Medical Imaging.*
- *IEEE Transactions on Computational Imaging.*
- *IEEE Transactions on Magnetics.*
- *Magnetic Resonance in Medicine (MRM).*
- *Journal of Magnetic Resonance Imaging (JMRI).*
- *NMR in Biomedicine.*
- *Medical Physics.*
- *Physics in Medicine and Biology.*
- *International Journal on Magnetic Particle Imaging.*
- *Scientific Reports.*
- *ACS Nano.*
- *Nanoscale, Royal Society of Chemistry.*
- *PLOS ONE.*
- *Journal of Physics D: Applied Physics.*
- *Signal, Image, and Video Processing (SIVP).*
- *Diagnostic and Interventional Radiology.*
- *TUBITAK - Turkish Journal of Electrical Engineering & Computer Sciences*

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.

LAST UPDATED

June 15, 2022