

ALI MAHLOOJI FAR

Associate Professor

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Education

B.Sc., Electronic Engineering, University of Tehran, Tehran, Iran 1983-1987
M.Sc., Digital Electronic, Sharif University of Technology, Tehran, Iran 1988-1991
Ph.D., Biomedical Instrumentation, University of Manchester, Institute of Science and Technology, Manchester, UK, 1992-1997

Research Interests

Image and Signal Processing, Ultrasound Imaging, Optical Imaging,
Biomedical Instrumentation

Taught Courses

Medical Imaging Systems
Ultrasound in Medicine
BioInstrumentation
Laser in Medicine

Selected Journal Papers

1)[Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging](#)

M Mozaffarzadeh, A Mahloojifar, M Orooji, S Adabi, M Nasiriavanaki
IEEE Transactions on Biomedical Engineering 65 (1), 31-42,2018

2)[Linear-array photoacoustic imaging using minimum variance-based delay multiply and sum adaptive beamforming algorithm](#)

M Mozaffarzadeh, A Mahloojifar, M Orooji, K Kratkiewicz, S Adabi.,
Journal of Biomedical Optics 23, (2), 026002, 2018

3)[Segmentation of breast ultrasound images based on active contours using neutrosophic theory](#)

M Lotfollahi, M Gity, JY Ye, AM Far
Journal of Medical Ultrasonics 45 (2), 205-212,2018

4)[Improving beamforming performance by phased synthetic aperture imaging in medical ultrasound](#)

M Sadeghi, A Mahloojifar
Journal of Medical Ultrasonics 44 (1), 51-62,2017

5)[Synthetic aperture ultrasound Fourier beamformation using virtual sources](#)

E Moghimirad, CAV Hoyos, A Mahloojifar, BM Asl, JA Jensen
IEEE transactions on ultrasonics, ferroelectrics, and frequency control 63 (12),2018-30,2016

6)[Computational complexity reduction of synthetic-aperture focus in ultrasound imaging using frequency-domain reconstruction](#)

E Moghimirad, A Mahloojifar, B Mohammadzadeh Asl
Ultrasonic imaging 38 (3), 175-193, 2016

7)[Weighted Capon beamformer combined with coded excitation in ultrasound imaging](#)

SA Izadi, A Mahloojifar, BM Asl
Journal of Medical Ultrasonics 42 (4), 477-488, 2015

8)[A low-complexity adaptive beamformer for ultrasound imaging using structured covariance matrix](#)

BM Asl, A Mahloojifar
IEEE transactions on ultrasonics, ferroelectrics, and frequency control 59 (4),2012

9)[Contrast enhancement and robustness improvement of adaptive ultrasound imaging using forward-backward minimum variance beamforming](#)

BM Asl, A Mahloojifar

IEEE transactions on ultrasonics, ferroelectrics, and frequency control 58 (4),2011

10)[Retinal image analysis using curvelet transform and multistructure elements morphology by reconstruction](#)

MS Miri, A Mahloojifar

IEEE Transactions on Biomedical Engineering 58 (5), 1183-1192,2011

11)[Eigenspace-based minimum variance beamforming applied to medical ultrasound imaging](#)

BM Asl, A Mahloojifar

IEEE transactions on ultrasonics, ferroelectrics, and frequency control 57 (11),2010

12)[Resolution improvement of scanning acoustic microscopy using sparse signal representation](#)

R Mohammadi, A Mahloojifar

Journal of Signal Processing Systems 54 (1-3), 15-24,2009

13)[A transformation based method to design ultrasound array](#)

SM Sakhaei, A Mahloojifar, H Ghassemian

Ultrasonics 49 (2), 179-184, 2009

14)[Minimum variance beamforming combined with adaptive coherence weighting applied to medical ultrasound imaging](#)

BM Asl, A Mahloojifar

IEEE transactions on ultrasonics, ferroelectrics, and frequency control 56 (9),2009

15)[A transformation based method to design ultrasound array](#)

SM Sakhaei, A Mahloojifar, H Ghassemian

Ultrasonics 49 (2), 179-184,2009

16)[Optimization of point spread function in ultrasound arrays](#)

M Sakhaei, A Mahloojifar, A Malek

Ultrasonics 44 (2), 159-165,2006