

Arun Kumar Thittai

List of Publications by Year in descending order

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38
papers

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38
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148
citing authors

#	ARTICLE	IF	CITATIONS
1	Axial Shear Strain Distributions in an Elliptical Inclusion Model: Experimental Validation and in vivo Examples With Implications to Breast Tumor Classification. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 814-820.	1.5	31
2	Axial-Shear Strain Elastography for Breast Lesion Classification: Further Results From In Vivo Data. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 189-197.	1.5	27
3	On the Advantages of Imaging the Axial-Shear Strain Component of the Total Shear Strain in Breast Tumors. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 2031-2037.	1.5	19
4	Dynamic frame pairing in real-time freehand elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 979-985.	3.0	19
5	Diverging beam transmit through limited aperture: A method to reduce ultrasound system complexity and yet obtain better image quality at higher frame rates. <i>Ultrasonics</i> , 2019, 91, 150-160.	3.9	17
6	Rotation Elastogram Estimation Using Synthetic Transmit-aperture Technique: A Feasibility Study. <i>Ultrasonic Imaging</i> , 2017, 39, 189-204.	2.6	15
7	Strategic Undersampling and Recovery Using Compressed Sensing for Enhancing Ultrasound Image Quality. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 547-556.	3.0	15
8	Weighted non-linear beamformers for low cost 2-element receive ultrasound imaging system. <i>Ultrasonics</i> , 2021, 110, 106293.	3.9	14
9	Strategies to Obtain Subpitch Precision in Lateral Motion Estimation in Ultrasound Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 448-456.	3.0	13
10	Spatial Compounding Technique to Obtain Rotation Elastogram: A Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1290-1301.	1.5	11
11	Compressed Sensing with Gaussian Sampling Kernel for Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1814-1829.	1.5	11
12	Towards quantitative quasi-static ultrasound elastography using a reference layer for liver imaging application: A preliminary assessment. <i>Ultrasonics</i> , 2019, 93, 7-17.	3.9	11
13	Axial super-resolution in ultrasound imaging with application to non-destructive evaluation. <i>Ultrasonics</i> , 2020, 108, 106183.	3.9	10
14	Method to Estimate the Deviation from Ideal Uniaxial Compression during Freehand Elastography. <i>Ultrasonic Imaging</i> , 2015, 37, 70-82.	2.6	8
15	Enhancing Image Quality of Photoacoustic Tomography Using Sub-Pitch Array Translation Approach: Simulation and Experimental Validation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3543-3552.	4.2	8
16	A Novel Elastographic Frame Quality Indicator and its use in Automatic Representative-Frame Selection from a Cine Loop. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 258-272.	1.5	7
17	Diverging beam with synthetic aperture technique for rotation elastography: preliminary experimental results. <i>Physics in Medicine and Biology</i> , 2018, 63, 20LT01.	3.0	6
18	Compressed Sensing Approach for Reducing the Number of Receive Elements in Synthetic Transmit Aperture Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 2012-2021.	3.0	6

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19	Design of a low cost ultrasound system using diverging beams and synthetic aperture approach: Preliminary study. , 2017, , .		4
20	Strategic Lateral Undersampling and Compressed Sensing Recovery in Ultrasound Imaging. , 2018, , .		4
21	Towards practical implementation of the compressed sensing framework for multi-element synthetic transmit aperture imaging. Ultrasonics, 2021, 112, 106354.	3.9	4
22	A Poly-vinyl Alcohol (PVA)-based phantom and training tool for use in simulated Transrectal Ultrasound (TRUS) guided prostate needle biopsy procedures. Medical Engineering and Physics, 2021, 96, 46-52.	1.7	4
23	Ultrasound Receive-Side Strategies for Image Quality Enhancement in Low-Energy Illumination Based Photoacoustic Imaging. Progress in Optical Science and Photonics, 2020, , 79-112.	0.5	4
24	An analysis of the segmentation threshold used in axial shear strain elastography. Ultrasonics, 2015, 55, 58-64.	3.9	3
25	Lateral Resolution Improvement in Ultrasound Imaging System using Compressed Sensing: Initial Results. , 2019, 2019, 2727-2730.		3
26	Algorithm for Sparse-Transmit Sparse-Receive Diverging Beam Synthetic Aperture Transmit Scheme. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2046-2056.	3.0	3
27	Toward Quantitative and Operator-independent Quasi-static Ultrasound Elastography: An Ex Vivo Feasibility Study. Ultrasonic Imaging, 2020, 42, 179-190.	2.6	3
28	Improved Lateral Resolution Using sub Pitch Sampling of Ultrasound Data for Pulsed Laser Diode-Based Photoacoustic Imaging. , 2018, , .		2
29	Understanding the Contrast Mechanism in Rotation Elastogram: A Parametric Study. Ultrasound in Medicine and Biology, 2018, 44, 1860-1872.	1.5	2
30	Deep-Learning based Identification of Frames Containing Foetal Gender Region During Early Second Trimester Ultrasound Scanning. , 2019, , .		2
31	A fast method for simulating ultrasound image from patient-specific CT data. Biomedical Signal Processing and Control, 2019, 48, 61-68.	5.7	2
32	Actuator-assisted Subpitch Translation-capable Transducer for Elastography: Preliminary Performance Assessment. Ultrasonic Imaging, 2020, 42, 15-26.	2.6	2
33	Quantitative Quasi-Static Ultrasound Elastography Using Reference Layer: A Preliminary Assessment. , 2018, , .		1
34	Extending Imaging Depth in PLD-Based Photoacoustic Imaging: Moving Beyond Averaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 549-557.	3.0	1
35	Axial Super-Resolution in Ultrasound Imaging. , 2019, , .		0
36	Novel POES Method for Raw RF Signal Recovery in Sparse Synthetic Aperture Ultrasound Acquisition: Preliminary Performance Analysis. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Compressed Sensing framework for Limited-element Compounded Diverging Waves: Initial Results. , 2021, , .		0
38	Pseudo-CT image synthesis from Ultrasound images for potential use in Brachytherapy treatment planning - initial results. , 2021, , .		0