

Richard Prager's Publications

Refereed Journal Articles

- [J1] N. Q. Nguyen and R. W. Prager. A spatial coherence approach to minimum variance beamforming for plane-wave compounding. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 65(4):522–534, April 2018. DOI 10.1109/TUFFC.2018.2793580.
- [J2] N. Q. Nguyen and R. W. Prager. Ultrasound pixel-based beamforming with phase alignments of focused beams. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 64(6):937–946, June 2017. DOI 10.1109/TUFFC.2017.2685198.
- [J3] N. Q. Nguyen, R. W. Prager, and M. F. Insana. Improvements to ultrasonic beamformer design and implementation derived from the task-based analytical framework. *Journal of the Acoustical Society of America*, 141(6), 2017. DOI 10.1121/1.4985187.
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- [J5] N. Q. Nguyen and R. W. Prager. Minimum variance approaches to ultrasound pixel-based beamforming. *IEEE Transactions on Medical Imaging*, 36(2):374–384, 2016. DOI 10.1109/TMI.2016.2609889.
- [J6] N. Q. Nguyen, R. W. Prager, and M. F. Insana. A task-based analytical framework for ultrasonic beamformer comparison. *Journal of the Acoustical Society of America*, 140(2), 2016. DOI 10.1121/1.4960607.
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Invited Journal Articles

- [I1] G. M. Treece, J. E. Lindop, L. Chen, R. J. Housden, R. W. Prager, and A. H. Gee. Real-time quasi-static ultrasound elastography. *Journal of the Royal Society Interface Focus*, 1(4):540–552, August 2011.
- [I2] R. W. Prager, U. Z. Ijaz, A. H. Gee, and G. M. Treece. Three-dimensional ultrasound imaging. *Proc. IMechE, Part H: Journal of Engineering in Medicine*, 224(H2):193–223, 2010. DOI: 10.1243/09544119JEM586.
- [I3] A. H. Gee, J. E. Lindop, G. M. Treece, R. W. Prager, and S. Freeman. Stable, intelligible ultrasonic strain imaging. *Ultrasound*, 16(4):187–192, November 2008.

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Refereed Conference Papers

- [C1] N. Q. Nguyen and R. W. Prager. Minimum variance beamformers for coherent plane-wave compounding. In *Proc. SPIE 10139, Medical Imaging 2017: Ultrasonic Imaging and Tomography*. Orlando, Florida, United States, February 2017. DOI 10.1117/12.2254293.
- [C2] A. H. Gee, G. M. Treece, L. Chen, and R. W. Prager. The use of quality metrics in ultrasonic strain imaging. In M. P. Andre, J. P. Jones, and H. Lee, editors, *Acoustical Imaging Volume 30*, pages 87–95. Springer, Monterey, California, 2011.
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