## Adaptive Imaging

## **Contents:**

- Mallart and Fink, "The van Cittert-Zernike theorem in pulse echo measurements", J. Acoust. Soc. Am., Vol. 90, No. 5, pp. 2718-2727, November, 1991.
- 2. Trahey, Smith and von Ramm, "Speckle pattern correlation with lateral aperture translation: experimental results and implications for spatial compounding", IEEE Trans. on UFFC, Vol. 33, No. 3, pp. 257-264, May, 1986.
- 3. Flax and O'Donnell, "Phase aberration correction using signals from point reflectors and diffuse scatterers: basic principles", IEEE Trans. on UFFC, Vol. 35, No. 6, pp. 758-767, November, 1988.
- 4. O'Donnell and Flax, "Phase aberration correction using signals from point reflectors and diffuse scatterers: measurements", IEEE Trans. on UFFC, Vol. 35, No. 6, pp. 768-774, November, 1988.
- Ng, Freiburger, Walker and Trahey, "A speckle target adaptive imaging technique in the presence of distributed aberrations", IEEE Trans. on UFFC, Vol. 44, No. 1, pp. 140-151, January, 1997.
- 6. Li and O'Donnell, "Phase aberration correction on two-dimensional conformal arrays", IEEE Trans. on UFFC, Vol. 42, No. 1, pp. 73-82, January, 1995.
- 7. Krishnan, Rigby and O'Donnell, "Improved estimation of phase aberration profiles", IEEE Trans. on UFFC, Vol. 44, No. 3, pp. 701-713, May, 1997.
- Liu and Waag, "Correction of ultrasonic wavefront distortion using backpropagation and a reference waveform method for time-shift compensation", J. Acoust. Soc. Am., Vol. 96, No. 2, pp. 649-660, August, 1994.
- 9. Hinkelman, Liu, Metlay and Waag, "Measurements of ultrasonic pulse arrival time and energy level variations produced by propagation through abdominal wall", J. Acoust. Soc. Am., Vol. 95, No. 1, pp. 530-541, January, 1994.
- 10. Lacefield and Waag, "Time-shift estimation and focusing through distributed aberration using multirow arrays", IEEE Trans. on UFFC, Vol. 48, No. 6, pp. 1606-1624, November, 2001.
- 11. Rigby, Chalek, Haider, Lewandowski, O'Donnell, Smith and Wildes, "Improved *in vivo* abdominal image quality using real-time estimation and correction of wavefront arrival time errors", 2000 IEEE Ultrasonics Symposium.
- 12. Li, Flax, Ebbini and O'Donnell, "Blocked element compensation in phased array imaging", IEEE Trans. on UFFC, Vol. 40, No.4, pp. 283-292, July 1993.
- 13. Krishnan, Li and O'Donnell, "Adaptive compensation for phase and magnitude aberrations", IEEE Trans. on UFFC, Vol. 43, No.1, pp. 44-55, Jan. 1996.

- 14. Krishnan, Rigby, and M. O'Donnell, "Efficient parallel adaptive aberration correction," IEEE Trans. on UFFC, Vol. 43, no. 1, pp. 691–703, 1998.
- 15. P.-C. Li and M.-L. Li, "Adaptive imaging using the generalized coherence factor", IEEE Trans. on UFFC, Vol. 50, No. 2, pp. 128-141, February, 2003.
- 16. Liu, Baker and Von Behren, "A clinical study of adaptive beamforming using time-delay adjustments on a 1D array", 2003 IEEE Ultrasonics Symposium.
- 17. McAleavey, Dahl, Pinton and Trahey, "Real time adaptive imaging with 1.75D, high frequency arrays", 2003 IEEE Ultrasonics Symposium.
- Fernandez and Trahey, "Two-dimensional phase aberration correction using an ultrasonic 1.75D array: case study on breast microcalcifications", 2003 IEEE Ultrasonics Symposium.