Erratum: Effect of Element Directivity on Adaptive Beamforming Applied to High-Frame-Rate Ultrasound

Hideyuki Hasegawa and Hiroshi Kanai

In the published article "Effect of element directivity on adaptive beamforming applied to high-frame-rate ultrasound" [1], the contrast C was correctly defined as

 $C = \frac{|\mu_{\rm B} - \mu_{\rm l}|}{\frac{\mu_{\rm B} + \mu_{\rm l}}{2}}. (24)$

However, by mistake, the contrast values in the paper were calculated as

$$C = \frac{|\mu_{\rm B} - \mu_{\rm l}|}{2(\mu_{\rm B} + \mu_{\rm l})}.$$

Therefore, $20 \log_{10} 4 = 12.04$ dB should be added to all the contrast values in the paper to obtain the correct contrast values.

References

H. Hasegawa and H. Kanai, "Effect of element directivity on adaptive beamforming applied to high-frame-rate ultrasound," *IEEE Trans. Ultrason. Ferroelectr. Freq. Control*, vol. 62, no. 3, pp. 511–523, 2015.

Manuscript received September 13, 2015; accepted September 15, 2015.

H. Hasegawa is with the Graduate School of Biomedical Engineering/Graduate School of Engineering, Tohoku University, Sendai 980-8579, Japan (e-mail: hasegawa@ecei.tohoku.ac.jp).

H. Kanai is with the Graduate School of Engineering/Graduate School of Biomedical Engineering, Tohoku University, Sendai 980-8579, Japan. DOI http://dx.doi.org/10.1109/TUFFC.2015.007340