Erratum: “Invertible Orientation Scores as an Application of Generalized Wavelet Theory” [*Pattern Recognition and Image Analysis* 17, 42 (2007)]

R. Duits, M. Duits, Markus van Almsick, and Bart ter Haar Romeny

*Department of Biomedical Engineering, Department of Mathematics, Eindhoven University of Technology,
P.O.Box 2, 5600 MB, Eindhoven The Netherlands*

e-mail: R.Duits@tue.nl; Maurice.Duits@wis.kuleuven.ac.be; M.v.Almsick@tue.nl; B.M.terhaarRomeny@tue.nl

DOI: 10.1134/S105466180703011X

On page 71, right column, first formula in APPENDIX A should be:

$$\begin{aligned} & (-i)^m H(\omega) \int_0^\infty (r\rho)^{-\left(\frac{d-2}{2}+m\right)} J_{\frac{d-2}{2}+m}(\rho r) F(r) r^{d+2m-1} dr \\ &= (-i)^m H(\omega) \rho^{-\left(\frac{d-1}{2}+m\right)} \left[\mathcal{H}_{\frac{d-2}{2}+m} r^{\frac{d-1}{2}+m} F \right](\rho). \end{aligned}$$

On page 55, right column, formula 6.41 should be:

$$A(\varphi) = \begin{cases} -\left(\frac{2}{\Delta^2}\right)\varphi^2 + 1 & \text{if } |\varphi| \leq \frac{\Delta}{2} \\ \left(\frac{2}{\Delta^2}\right)\varphi^2 - \frac{4}{\Delta}|\varphi| + 2 & \text{if } \frac{\Delta}{2} \leq |\varphi| \leq \Delta, \\ 0 & \text{else} \end{cases} \quad \varphi \in [-\pi, \pi).$$

On page 49, right column, 3rd formula from top should be:

$$c\|\mathbf{a}\|_{\ell_2}^2 \leq \left\| \sum_{n \in \mathbb{N}} a_n \psi_n \right\|^2 \leq C\|\mathbf{a}\|_{\ell_2}^2, \quad \text{for all } \mathbf{a} \in \ell_2(\mathbb{N}).$$

On page 73, left column, 2nd formula from top in APPENDIX C should be:

$$\begin{aligned} \hat{W}_{j,k,l} &= (\eta_{jkl}, W)_{\mathbb{L}_2([0,X] \times [0,Y] \times S_1)} \\ &= \int_0^Y \int_0^X \int_0^{2\pi} e^{-2\pi i \left(\frac{jx}{X} + \frac{ky}{Y} + \frac{l\theta}{2\pi} \right)} W(x, y, \theta) d\theta dx dy. \end{aligned}$$