Erratum

In the original version of the article 'On geometric properties of spherical conics and generalization of π in navigation and mapping' by Piotr Kopacz, first published on 21st December 2012, the mistakes were introduced to formula 12 (online) and formula 17 (print).

Formula 12 wrongly appeared as:

Substituting $AC = d$ and $AS = CS = l$ and recalling the length of the conical circle (10) the value of function $\tilde{\pi} : \mathbb{R}^2 \to \mathbb{R}$ equals:

$$\pi(\,,\beta) = \frac{L(l,\;)}{d(l,\;)} = \frac{\pi - \beta}{\sqrt{2\left(1 \quad \cos -\right)}}. \tag{12}$$

It should have appeared as:

Substituting $AC = d$ and $AS = CS = l$ and recalling the length of the conical circle (10) the value of function $\tilde{\pi} : \mathbb{R}^2 \to \mathbb{R}$ equals:

$$\tilde{\pi}(l,\beta) = \frac{L(l,\beta)}{d(l,\beta)} = \frac{2\pi - \beta}{\sqrt{2\left(1 + \cos\dfrac{\beta}{2}\right)}}. \tag{12}$$

Formula 17 wrongly appeared as:

$$\varepsilon(x) = \left|\frac{\tilde{\pi}(x) - \pi}{\tilde{\pi}(x)}\right| 100\% \xrightarrow{r = \frac{\pi}{2} - x} (r) = \left|1 - \frac{r}{\sin r}\right| 100\%. \tag{17}$$

It should have appeared as:

$$\varepsilon(x) = \left|\frac{\tilde{\pi}(x) - \pi}{\tilde{\pi}(x)}\right| 100\% \xrightarrow{r = \frac{\pi}{2} - x} \varepsilon(r) = \left|1 - \frac{r}{\sin r}\right| 100\%. \tag{17}$$

We apologise to the author for these errors.

A corrected version can now be found at T&F Online, DOI:10.3846/20296991.2012.756995.