

Erratum to “Mathematical Morphology in Geomorphology and GISci”

B. S. Daya Sagar

THE author of the book “B. S. Daya Sagar (2013) *Mathematical Morphology in Geomorphology and GISci*, CRC Press, Boca Raton, FL”, would like to point out that equation (14.16) on page 486 in [1] should have been read as follows:

$$(N_{\max}) = \max \left\{ \left[\min \left(\lambda : X^{t+1} \subseteq (X^t \oplus \lambda B) \right) \right], \left[\min \left(\lambda : (X^{t+1} \ominus \lambda B) \subseteq X^t \right) \right] \right\} \quad (14.16)$$

The author would also like to point out that Table 14.4 and the first sentence followed by this table on page 492 [1] should have been read as follows:

TABLE 14.4. HAUSDORFF DISTANCE VALUES

t	$\rho[M(X^t, X^{t+2}), X^{t+1}]$	$\sigma[M(X^t, X^{t+2}), X^{t+1}]$	$\rho(X^t, X^{t+1})$	$\sigma(X^t, X^{t+1})$
1896	8	2	7	1
1897	2	2	1	1
1898	1	1	1	1
1899	4	2	1	1
1900	12	9	1	1
1901	8	7	2	1
1902	8	8	1	1
1903	3	3	2	1
1904	2	2	1	1
1905	-	-	2	1

The lower the difference between the values of $\rho[M(X^t, X^{t+2}), X^{t+1}]$ or $\sigma[M(X^t, X^{t+2}), X^{t+1}]$ and $\rho(X^t, X^{t+1})$ or $\sigma(X^t, X^{t+1})$ is, the higher the degree of matching is.

REFERENCES

[1] B. S. Daya Sagar, *Mathematical Morphology in Geomorphology and GISci*, CRC Press, Boca Raton, FL, p. 546, 2013.