Correction to “Integrated Directional Derivative Gradient Operator”

OSCAR A. ZUNIGA, MEMBER, IEEE, AND ROBERT M. HARALICK, FELLOW, IEEE

In the aforementioned paper [1] it was stated on page 510 that the proposed gradient operator achieves best performance when

\[
\begin{array}{cccccc}
1 & 1 & 1 & 1 & 1 & 1 \\
-116 & -530 & -668 & -530 & -116 \\
-128 & -335 & -404 & -335 & -128 \\
0 & 0 & 0 & 0 & 0 \\
128 & 335 & 404 & 335 & 128 \\
116 & 530 & 668 & 530 & 116 \\
\end{array}
\]

\[1000\]

\[
\begin{array}{cccccc}
1 & 1 & 1 & 1 & 1 & 1 \\
-3 & -348 & -555 & -624 & -555 & -348 & -3 \\
-142 & -372 & -510 & -556 & -510 & -372 & -142 \\
-113 & -228 & -297 & -320 & -297 & -228 & -113 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 \\
113 & 228 & 297 & 320 & 297 & 228 & 113 \\
142 & 372 & 510 & 556 & 510 & 372 & 142 \\
3 & 348 & 555 & 624 & 555 & 348 & 3 \\
\end{array}
\]

\[224\]

on page 274, column 2, line 29 (in second paragraph of Section II), the line that reads “inequalities is strictly greater than and \( u \) is a positive” should have read “inequalities is strictly less than and \( u \) is a positive”.

On page 277, the equation in the first column and the next two lines after the first paragraph, which appeared as

\[
\begin{aligned}
V(X) &= W_1 X_1 + W_2 X_2 + \cdots + W_k X_k \\
W_1, \ldots, W_k & \text{ where } W \text{ is the normalized gradient. The assessed weights are normalized values of the gradient.}
\end{aligned}
\]

should have read

\[
\begin{aligned}
V(X) &= w_1 x_1 + w_2 x_2 + \cdots + w_k x_k \\
\text{where } W &= w_1, w_2, \ldots, w_k \text{ is the normalized gradient assessed in the vicinity of a given point, } X'. \text{ Hence if point } X_1 \text{ is preferred to point } X_2, (9) \text{ can be stated as}
\end{aligned}
\]

\[
V(X_1) - V(X_2) = W(x_1 - x_2) = w_1 (x_{11} - x_{21}) + w_2 (x_{12} - x_{22}) + \cdots + w_k (x_{1k} - x_{2k}) > 0 .
\]

On page 281, the line (in the first column) that reads “disregarded (i.e., constraints of type (3) can be disregarded” should instead read “disregarded (i.e., constraints of type (13) can be disregarded.”

Correction to “A Decision Support System and a Heuristic Interactive Approach for Solving Discrete Multiple Criteria Problems”

B. MALAKOOTI

Three errata made in the aforementioned published paper are corrected as follows.

On page 274, column 2, line 29 (in second paragraph of Section II), the line that reads “inequalities is strictly greater than and \( u \) is a positive” should have read “inequalities is strictly less than and \( u \) is a positive”.

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