ERRATA CORRIGE

Geometric Interpretation of the Optimality Conditions in Multifacility Location and Applications

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Abstract. Several corrections to Ref. 1 are pointed out.

Key Words. Optimality conditions, multifacility location problem.

On page 86, line 29, $(\mathbb{R}^n)^I$ must be replaced by $(\mathbb{R}^N)^I$.

On page 87, line 6, $\uparrow$ must be replaced by $\uparrow_{\rightarrow}$.

On page 87, line 8, the statement

“and similarly $\downarrow$, $\downarrow$, $\uparrow$ and $\downarrow$, $\leftarrow$, $\uparrow$ for the other symmetrical cones.”

should read

“and similarly $\downarrow_{\rightarrow}$, $\leftarrow_{\downarrow}$, $\leftarrow_{\uparrow}$ and $\downarrow$, $\leftarrow$, $\uparrow$ for the other symmetrical cones.”

On page 87, the formula on line 24,

$$\partial\Phi(X) = \begin{cases} \operatorname{div}_I P, & p_{ij} \in \omega_{ij} \partial\gamma(x_i - a_j), \quad (i, j) \in E_a, \\ \operatorname{div}_I P, & \tilde{p}_{il} \in \tilde{\omega}_{il} \partial\gamma(x_i - x_l), \quad (i, l) \in E_x, \end{cases}$$

should read

$$\partial\Phi(X) = \left\{ \operatorname{div}_I P, \text{ with } P \left| \begin{array}{l} p_{ij} \in \omega_{ij} \partial\gamma(x_i - a_j), \quad (i, j) \in E_a \\ \tilde{p}_{il} \in \tilde{\omega}_{il} \partial\gamma(x_i - x_l), \quad (i, l) \in E_x \end{array} \right. \right\}.$$

On page 90, line 2, $a_1 + \downarrow$ should read $a_1 + \downarrow_{\rightarrow}$.

On page 90, line 3, the statement

$$x_2 \in a_2 + \uparrow, \quad x_3 \in a_3 + \downarrow, \quad x_4 \in a_4 + \uparrow,$$

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must be replaced by

$$x_2 \in a_2 + \uparrow_{\rightarrow}, \quad x_3 \in a_3 + \nwarrow_{\downarrow}, \quad x_4 \in a_4 + \nwarrow_{\uparrow}.$$

On page 90, lines 20 and 21, the statement

$$\begin{aligned} x_1 \in a_1 + \downarrow, \quad x_3 \in a_3 + \downarrow, \\ x_2 \in a_2 + \uparrow, \quad x_4 \in a_4 + \uparrow, \end{aligned}$$

must be replaced by

$$\begin{aligned} x_1 \in a_1 + \downarrow_{\rightarrow}, \quad x_3 \in a_3 + \nwarrow_{\downarrow}, \\ x_2 \in a_2 + \uparrow_{\rightarrow}, \quad x_4 \in a_4 + \nwarrow_{\uparrow}. \end{aligned}$$

On page 93, line 21, the expression $k = l$ must be replaced by $k \neq l$.

On page 95, line 8 from the bottom, the expression $E_0 \neq \emptyset$ must be replaced by $E_0 = \emptyset$.

On page 96, line 16, the sentence “when T is an attraction tree of G ” must be replaced by “when T is an attraction tree of G and $E_0 = \emptyset$.”

References

1. LEFEBVRE, O., MICHELOT, C., and PLASTRIA, F., *Geometric Interpretation of the Optimality Conditions in Multifacility Location and Applications*, Journal of Optimization Theory and Applications, Vol. 65, No. 1, pp. 85–101, 1990.