

ERRATUM

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Erratum to: Shipping Optimisation Systems (SOS): tramp optimisation perspective

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Erratum

Unfortunately, the original PDF version of this article [1] contained some errors. The equation 8, 11, 13, 14, 15, 16, 17, 19, 22 all displayed incorrectly in the section of Appendix 1. The correct equations can be found below and the original article of PDF version has been updated to reflect this change.

$$V_j^k \geq V_i^k - v_i \sum_{z \in Z} x_{ijz}^k, \quad i \in L, j \in E, \text{ and } k \in S, \text{ where } \sum_{z \in Z} x_{ijz}^k = 1, \quad (8)$$

$$V_j^k \geq V_i^k + v_i \sum_{z \in Z} x_{ijz}^k, \quad i \in D, j \in E, \text{ and } k \in S, \text{ where } \sum_{z \in Z} x_{ijz}^k = 1, \quad (11)$$

$$W_i^k \geq W^k, \quad i \in D, \text{ and } k \in S, \text{ where } \sum_{z=3,4} x_{igz}^k = 1, g \in G, \quad (13)$$

$$V_i^k \geq V^k, \quad i \in D, \text{ and } k \in S, \text{ where } \sum_{z=3,4} x_{igz}^k = 1, g \in G, \quad (14)$$

$$N_i^k \geq N^k, \quad i \in D, \text{ and } k \in S, \text{ where } \sum_{z=3,4} x_{igz}^k = 1, g \in G, \quad (15)$$

$$W_i^k \geq W_0^k, \quad i \in D, \text{ and } k \in S, \text{ where } \sum_{z=1,2} x_{ijz}^k = 1, j \in E, \quad (16)$$

$$T_j^k \geq T_i^k + t_i + \sum_{z \in Z} t_{ijz}^k x_{ijz}^k, \quad i \in E_f, j \in E_g, \text{ and } k \in S, \text{ where } t_{ifz}^k = 0, \text{ and } \sum_{z \in Z} x_{ijz}^k = 1, \quad (17)$$

$$T_j^k \geq a_i, \quad j \in E, \text{ and } k \in S, \text{ where } \sum_{i \in E_f} \sum_{z \in Z} x_{ijz}^k = 1, \quad (19)$$

$$T_g^k \leq T^k, \quad g \in G, k \in S, \text{ where } \sum_{z=3,4} x_{igz}^k = 1 \text{ and } i \in D, \quad (22)$$

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Reference

1. Said El Noshokaty (2017) Shipping Optimisation Systems (SOS): tramp optimisation perspective. *J Shipp Trade* 2:3. <https://doi.org/10.1186/s41072-017-0021-y>