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Correction: Optimality and duality theorems in nonsmooth multiobjective optimization

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We wish to indicate the following corrections to our original paper [1].

(1) The first sentence in Definition 2.2, we delete "$i \in \{1,2,\cdots,p\}$".

(2) The first sentence in Definition 2.2, we replace

$$f_i(x) + s(x|D_i) \not< f_i(x^0) + s(x^0|D_i)$$

to

$$f(x) + s(x|D) \not< f(x^0) + s(x^0|D).$$

(3) The second sentence in Definition 2.3, we delete "$i \in \{1,2,\cdots,p\}$".

(4) The second sentence in Definition 2.3, we replace

$$f_i(x) + s(x|D_i) \not< f_i(x^0) + s(x^0|D_i) + c_i||x - x^0||^m$$

to

$$f(x) + s(x|D) \not< f(x^0) + s(x^0|D) + c||x - x^0||^m.$$

(5) The second sentence in Definition 2.4, we delete "$i \in \{1,2,\cdots,p\}$".

(6) The second sentence in Definition 2.4, we replace

$$''f_i(x) + s(x|D_i) \not< f_i(x^0) + s(x^0|D_i) + c_i||x - x^0||^m$$

to

$$f(x) + s(x|D) \not< f(x^0) + s(x^0|D) + c||x - x^0||^m.''.$$

(7) The second sentence in the proof of Theorem 2.1, we replace. " $c_i > 0$, $i = 1, \ldots, p$ " to " $c \in intR_+^p$".

(8) The second sentence in the proof of Theorem 2.1, we replace

$$f_i(x) + s(x|D_i) \not< f_i(x^0) + s(x^0|D_i) + c_i||x - x^0||^m$$

to

$$f(x) + s(x|D) \not< f(x^0) + s(x^0|D) + c||x - x^0||^m.$$

(9) In equation (3.8), we replace "c_i" to "d_i".

(10) The eighth sentence in the proof of Theorem 3.3, we replace "where $c = ae$," to "where $d = ae$".

(11) The ninth sentence in the proof of Theorem 3.3, we replace "$c \in int\ R^p$" to "$d_i > 0$, $i = 1,\cdots,p,$".

(12) The ninth sentence in the proof of Theorem 3.3, we replace "c_i" to "d_i".

(13) The tenth sentence in the proof of Theorem 3.3, we replace "c_i" to "d_i".

(14) The tenth sentence in the proof of Theorem 3.3, we replace "c_i" to "d_i".

(15) In equation (4.8), we replace "c_i" to "d_i".

(16) The tenth sentence in the proof of Theorem 4.1, we replace "where $c = ae$," to "where $d = ae$".

(17) The eleventh sentence in the proof of Theorem 4.1, we replace "$c \in int\ R^p$" to "$d_i > 0$, $i = 1,\cdots, p,$".

(18) The eleventh sentence in the proof of Theorem 4.1, we replace "c_i" to "d_i".

(19) The twelfth sentence in the proof of Theorem 4.1, we replace "$c \in int\ R^p$," to "$d_i > 0$, $i = 1,\cdots, p,$".

(20) The twelfth sentence in the proof of Theorem 4.1, we replace "c_i" to "d_i".

(21) The twelfth sentence in the proof of Theorem 4.1, we replace "$i = 1,\cdots, p.$" to "$i = 1,\cdots,p,$".

(22) The fourth sentence in the proof of Theorem 4.2, we replace "c_i" to "c".

(23) The fourth sentence in the proof of Theorem 4.2, we replace

$$f_i(x^0) + (x^0)^T w_i^0 + c_i||u - x^0||^m \not< f_i(u) + u^T w_i,\ i = 1, \cdots, p.$$

to

$$f(x^0) + (x^0)^T w^0 + c||u - x^0||^m \not< f(u) + u^T w.$$

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Reference

1. Bae, , Kim, : Optimality and Duality Theorems in Nonsmooth Multiobjective Optimization. Fixed Point Theory and Applications. **2011**, 42 (2011). doi:10.1186/1687-1812-2011-42

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