

ERRATA CORRIGE

Theorems of the Alternative and Optimality Conditions

F. GIANNESI¹

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

Key Words. Optimality conditions, regularity, constraint qualifications, theorems of the alternative.

With reference to the paper published in Ref. 1, the following corrections should be made.

- (a) On page 332, Eq. (3a), the expression $\forall \in X$ must be replaced with $\forall x \in X$.
- (b) On page 333, Eq. (5a), the expression $\bar{\lambda}^i \neq 0$ must be omitted.
- (c) On page 334, line 16, the expression $\lambda = 0$ must be replaced with $\lambda \neq 0$.
- (d) On page 351, formula on line 3 from the bottom, $\theta \in \mathbb{R}$ must be replaced with $\theta \in \mathbb{R}_+$.
- (e) On page 354, line 19, the sentence: "Continuity of w_4 on respect of u, v , is assumed" must be added.
- (f) On page 355, line 1, the sentence "there exists a" must be replaced with "for every".
- (g) On page 355, line 2, the sentence "such that, for $x \neq \bar{x}$, we have¹⁵" must be replaced with "there exists $x \in N' \cap (X \setminus \{\bar{x}\})$ such that¹⁵".
- (h) On page 355, line 4, the expression $\forall x \in X' \cap X$ must be omitted.
- (i) On page 355, lines 11, 13, 15, the expression $\forall x \in N' \cap X \setminus \{\bar{x}\}$ must be omitted.
- (j) On page 355, line 16, the expression "(8a)" must be replaced with "the impossibility of (23)."
- (k) On page 357, line 16, $x \in \mathbb{R}^n$ must be replaced with R .
- (l) On page 357, line 19, $\varphi(x^r)$ must be replaced with $\varphi(x^r) + p_r(g(x^r))$.
- (m) On page 365, line 28 must be added: "Programming, Vol. 7, pp. 253-258, 1974."

¹ Professor, Department of Mathematics, Faculty of Sciences, University of Pisa, Pisa, Italy.

References

1. GIANNESI, F., *Theorems of the Alternative and Optimality Conditions*, Journal of Optimization Theory and Applications, Vol. 42, pp. 331–365, 1984.