Erratum


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The proof of (d) in Section 3 makes no sense. The following proof should replace the whole sentence ‘Second, replacing ...’.

Using the continuity of $F$ and $G$ in $(0, \delta)$, we can prove that $F$ and $G$ are continuous on $(0, 2\delta)$ by showing that they are continuous at each $u + v$ with $u, v \in (0, \delta)$. Subtracting from both sides of (22) the corresponding expressions with $u + v -$ and $v -$ in place of $u + v$ and $v$, and using $\tilde{F}(v-) = \tilde{F}(v), \tilde{G}(v-) = \tilde{G}(v)$, we find

$$\tilde{G}(v)[\tilde{F}(u + v) - \tilde{F}(u + v-)] = x(u)[\tilde{G}(u + v-) - \tilde{G}(u + v)]\tilde{F}(v),$$

hence (one side being $\leq 0$ and the other $\geq 0$) $\tilde{F}(u + v) = \tilde{F}(u + v-)$ and $\tilde{G}(u + v-) = \tilde{G}(u + v)$ for $u, v \in (0, \delta)$. This argument extends to $u, v \in (0, n\delta) \cap (0, x^+), n \in \mathbb{N}$, and hence to $(0, x^+)$. Two smaller mistakes: In the proof of (a), Section 2, ‘$m_1(t) + m_2(t) = m(t)$’ should be replaced by ‘$m_1(t) + m_2(t) = m_1(t)$’; in the last paragraph of Section 3, ‘in the interior of $(0, x^+) - \tilde{D}$’ is a pleonasm because the set is open.

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