

**CORRECTIONS TO
“APPLICATIONS OF THE IDZIK
FIXED POINT THEOREM”**

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This is to correct some errors and to improve some parts in my paper [This proceedings, Vol.1 (1996), 21-56].

1. (p.27, line 14-23) Replace these lines by the following:

Proof. We use Theorem 1 with $T_i : X \rightarrow K_i$ defined by $T_i(x) = A_i(x^i)$ for $x \in X$. Then, for each $x \in X$, we have

$$\begin{aligned}(x, y) \in Gr(T_i) &\iff (x_i, x^i) \in X_i \times X^i \text{ and } y \in A_i(x^i) \subset K_i \\ &\iff (x_i, x^i, y) \in X_i \times (A_i \cap (X^i \times K_i)),\end{aligned}$$

which implies that $Gr(T_i)$ is closed in $X \times K_i$. Hence, each T_i is a closed map with nonempty convex values. Therefore, by Theorem 1, there exists an $\hat{x} \in K$ such that $\hat{x}_i \in T_i(\hat{x})$ for all $i \in I$. Since $\hat{x}_i \in K_i \subset X_i$, we have $\hat{x} = [\hat{x}^i, \hat{x}_i] \in A_i$ for all $i \in I$. This complete our proof.

2. (p.30, line 14-21) Delete Theorem 8 and its proof.
3. (p.32, line 12) Delete $X = K$. Replace $S(x) = K$ by $S(x) = X$.
4. (p.32, line 21) $D \implies X$.
5. (p.33, line 9) $K \times K \implies X \times X$.
6. (p.39, line 12) Add the following to Remark:

Typeset by $\mathcal{A}\mathcal{M}\mathcal{S}$ -TEX

For a locally convex t.v.s. E , Theorem 12 reduces to Chang and Zhang [CZ, Theorem 1] and Zhang [Z, Theorem 3].

7. (p.48, line 3) Theorem 6 \implies Theorem 16.
8. (p.49, line 9) point. \implies point in K .
9. (p.50, line 2) Theorem 2 \implies Theorem 19.
10. (p.50, line 10) $\{x_i\}_{i \neq I} \implies \{x_i\}_{i \in I}$.
11. (p.50, line 11) element. \implies element in K .
12. (p.50, line 13) Theorem 18 \implies Theorem 19.

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