

**AN ERRATUM TO “PROVING COMMON FIXED POINT THEOREMS FOR LIPSCHITZ TYPE MAPPINGS VIA ABSORBING PAIRS”,**

(COMMUNICATED BY DENNY LEUNG)

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On critical examination of our results presented in [1], we notice some minor errors except a crucial one (Example 3.7). In all, we need to carry out the following corrections:

1. Page-96: Line;+21, “ $fu = fgu = ffu$ ” should read as “ $fu = fgu = gfu$ ”.
2. Page-96: Line;+26, “set of reals  $R$ ” should read as “set of positive reals  $R$ ”.
3. Page-98: Line;+25, “pointwise  $g$ -absorbing” should read as “ $g$ -absorbing”.
4. Page-98: Line;-2, “pointwise  $g$ -absorbing” should read as “ $g$ -absorbing”.
5. Page-99: Line;+26, “pointwise  $g$ -absorbing” should read as “ $g$ -absorbing”.
6. On page-98, Example 3.7, should read (corrected version) as follows:

**Example 3.7.** Let  $X = (-1, 1] \cup \{2, 3, 4\}$  and  $d$  be the usual metric on  $X$ . Define  $f, g : X \rightarrow X$  as

$$f x = \begin{cases} \frac{3}{5}, & \text{if } -1 < x < -1/2 \\ \frac{x}{4}, & \text{if } -1/2 \leq x \leq 1/2 \\ \frac{3}{5}, & \text{if } 1/2 < x < 1 \\ 3, & \text{if } x = 1, 4 \\ 2, & \text{if } x = 2, 3, \end{cases} \quad g x = \begin{cases} \frac{3}{4}, & \text{if } -1 < x < -1/2 \\ \frac{x}{2}, & \text{if } -1/2 \leq x \leq 1/2 \\ \frac{-3}{4}, & \text{if } 1/2 < x < 1 \\ 2, & \text{if } x = 1, 2, 3, 4, \end{cases}$$

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Then  $f$  and  $g$  satisfy all the conditions of Theorem 3.6 and have two common fixed points namely 0 and 2 but the pair  $(f, g)$  is not Lipschitzian whenever  $x = 1$  and  $y = 2$ . Further, at  $x = 1$ ,  $f$  and  $g$  do not satisfy the condition

$$d(fx, ffx) \neq \max\{d(gx, gfx), d(fx, gx), d(ffx, gfx), d(fx, gfx), d(gx, ffx)\}$$

whenever the right hand side is non zero.

#### REFERENCES

- [1] D. Gopal, M. Imdad, M. Hasan, D. K. Patel, *Proving common fixed point theorems for Lipschitzian type mappings via absorbing pair*, Bull. Math. Anal. Appl., 3(4)(2011), 92-100.

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