Erratum

Erratum to "Common Fixed Point Theorems in Modified Intuitionistic Fuzzy Metric Spaces"

Saurabh Manro,[1] Sanjay Kumar,[2] S. S. Bhatia,[1] and Kenan Tas[3]

[1] *School of Mathematics and Computer Applications, Thapar University, Patiala, 147001 Punjab, India*
[2] *Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonepat, 131027 Haryana, India*
[3] *Department of Mathematics and Computer Science, Cankaya University, 06810 Ankara, Turkey*

Correspondence should be addressed to Saurabh Manro; sauravmanro@hotmail.com

On critical examination of the results given in our paper entitled "*Common fixed point theorems in modified intuitionistic fuzzy metric spaces*," we notice one crucial error. We need to carry out the following correction.

Example 22 given in the paper is wrong as follows.

None of the maps in A, B, S, and T is continuous. Therefore, all conditions of Theorem 20 are not satisfied.

Hence, Example 22 in the paper is replaced by the below example.

Example 22. Let $X = [0, \infty)$ and for each $t > 0$, define

$$\zeta_{M,N}\left(x, y, t\right) = \left(\frac{t}{t + |x - y|}, \frac{|x - y|}{t + |x - y|} \right) \quad \forall x, y \in X. \tag{22}$$

Then $(X, \zeta_{M,N}, \mathcal{T})$ is a complete modified intuitionistic fuzzy metric space. Let A, B, S, and T be self-maps on X defined as: $Ax = Bx = 3x/4$ and $Sx = Tx = 2x$ for all $x \in X$. Clearly,

  (i) the pairs $\{A, S\}$ and $\{B, T\}$ are continuous self-mappings on X;

 (ii) $A(X) \subseteq T(X)$, $B(X) \subseteq S(X)$;

(iii) $\{A, S\}$ and $\{B, T\}$ are R-weakly commuting pairs as both pairs commute at coincidence points;

(iv) $\{A, S\}$ and $\{B, T\}$ satisfy inequality (5) for all $x, y \in X$, where $k \in (0, 1)$ and $\alpha = 1$.

Hence, all conditions of Theorem 20 are satisfied and $x = 0$ is a unique common fixed point of A, B, S, and T.