Erratum to: “Sub Compatible and Sub Sequentially Continuous Maps in Fuzzy Metric Spaces”

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On critical examination of the results given in our paper [1], we notice one crucial error. We need to carry out the following correction:

Example 3 given in paper [1] is wrong as \( k(x_n) = k\left(1 - \frac{1}{n}\right) = 2 \neq \left(1 - \frac{1}{n}\right) \).

So example 1 in paper [1] is replaced by below example:

**Example I:** Let \( X = \mathbb{R} \) (Set of Real Numbers). For each \( t > 0 \) and \( x, y \in X \), define

\[
M(x, y, t) = \begin{cases} 
  t & t > 0, \\
  \frac{t}{t + |x - y|} & t = 0.
\end{cases}
\]

Then \((X, M, *)\) be fuzzy metric space. Let \( f, g, h \) and \( k \) be defined as follows:
Let \( \{x_n\} \) be a sequence in \( X \) defined by \( \left\{ x_n = y_n = 1 - \frac{1}{n} \right\} \) for \( n = 1, 2, 3, \ldots \)

Then, \( \lim_{n \to \infty} f(x_n) = \lim_{n \to \infty} h(x_n) = \lim_{n \to \infty} g(y_n) = \lim_{n \to \infty} k(y_n) = 1 \) and

\( f h(x_n) \to 1 = f(1) \), \( h f(x_n) \to 1 = h(1) \) when \( n \to \infty \)

Also, \( g k(y_n) \to 1 = g(1) \), \( k g(y_n) \to 1 = k(1) \) which shows that \((f, h)\) and \((g, k)\) are sub compatible as well as Subsequential continuous.

Therefore, all the conditions of Theorem 1 are satisfied and \( x = 1 \) is unique common fixed point of pair \((A, S)\).

REFERENCES


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