Turk. J. Math. Comput. Sci.
12(1)(2020) 66–67

https://dergipark.org.tr/en/pub/tjmcs

Erratum to: Deferred Statistical Convergence of Double Sequences in Intuitionistic Fuzzy Normed Linear Spaces [Turk. J. Math. Comput. Sci., 11(Special Issue)(2019), 95-104.]

Ömer Kişi[1,*], Erhan Güler[1]

[1]*Department of Mathematics, Faculty of Science, Bartın University, 74100 Kutlubey, Bartın, Turkey.*

Received: 09-03-2020 • Accepted: 27-03-2020

Abstract. The authors would like to correct some errors which appear in the orginal publication of the article "Deferred statistical convergence of double sequences in intuitionistic fuzzy normed linear spaces [Turk. J. Math. Comput. Sci., 11(Special Issue)(2019), 95–104]".

2010 AMS Classification: 03E72, 40A35.

Keywords: Intuitionistic fuzzy deferred convergence, Intuitionistic fuzzy deferred statistical convergence.

The authors would like to correct some errors which appear in the orginal publication of the article [1]. The corrections are given in the followings:

Abstract must be as follows:

In this study, the intuitionistic fuzzy deferred statistical convergence of double sequences in the intuitionistic fuzzy normed space is defined by considering deferred density given in 2016 by Dağadur and Sezgek [4]. Besides the main properties of this new method, it is compared with intuitionistic fuzzy statistical convergence of double sequences and itself under different restrictions on the method. Some special cases of the obtained results coincide with known results in literature.

The authors omit Definition 2.3 in Main Results, and give it as Definition 1.1 in Introduction and Background, as follows:

In [4], the authors investigated deferred Cesàro mean and deferred statistical convergence for double sequences by using deferred double natural density of the subset of natural numbers and give some certain results for deferred Cesàro mean of double sequences and obtained some important results.

Definition 0.1. ([4]) Let $x = (x_{kl})$ be a double sequence and $\beta(n) = q(n) - p(n)$, $\gamma(m) = r(m) - t(m)$, and let $\{p(n)\}$, $\{q(n)\}$, $\{r(m)\}$ and $\{t(m)\}$ be sequences of nonnegative integers satisfying the conditions

$$p(n) < t(m), t(m) < r(m) \text{ and}$$

$$\lim_{n\to\infty} q(n) = \infty, \lim_{m\to\infty} r(m) = \infty.$$

*Corresponding Author
Email addresses: okisi@bartin.edu.tr (Ö. Kişi), eguler@bartin.edu.tr (E. Güler)

Then deferred Cesaro mean $D_{\beta,\gamma}$ of the double sequence x is defined by

$$\left(D_{\beta,\gamma}x\right)_{nm} = \frac{1}{\beta(n)\gamma(m)} \sum_{\substack{k=p(n)+1 \\ l=r(m)+1}}^{q(n),r(m)} x_{kl}.$$

The authors add citation [4] in the References, as follows:

[4] Dağadur, İ., Sezgek, Ş., *Deferred Cesàro mean and deferred statistical convergence of double sequences*, J. Inequal. Spec. Funct., **7**(4)(2016), 118–136.

References

[1] Kişi, Ö., Güler, E., *Deferred statistical convergence of double sequences in intuitionistic fuzzy normed linear spaces*, Turk. J. Math. Comput. Sci., **11**(Special Issue)(2019), 95–104.