

International Workshop on Dynamical Systems and Applications (IWDSA 2019)

*In Memory of Prof. Dr. Aydın Tiryaki*

Gazi University, Ankara, Turkey, 3-4 May 2019

## Approximation by parametric extension of Baskakov-Durrmeyer type operators

K. Altay<sup>1</sup>, I. Yuksel<sup>2</sup>

<sup>1</sup> *Gazi University, Ankara, Turkey, altaykubra@hotmail.com*

<sup>2</sup> *Gazi University, Ankara, Turkey, iyuksel@gazi.edu.tr*

### Abstract

In this study, the approximation properties of parametric extension of Baskakov-Durrmeyer type operators sequence, studied [1] and [2], were investigated. The uniform convergence of these operators in the sense of Korovkin type theorem proven. Also with the help of continuity module, a rate of approximation degree is given.

**Key Words:** Baskakov Durrmeyer type operators, Modulus of continuity, Rate of convergence.

### References

- [1] I. Yuksel, Better error estimation for a certain family of summation integral type operators, Gazi University Journal of Science, 25 (2012), 97-106.
- [2] N. Rao, parametric extension of Baskakov-Durrmeyer type operators, [www.researchgate.net/publication/325895662](http://www.researchgate.net/publication/325895662).