



An Investigation of Szasz-Kantorovich Operators Associated with Confluent-Appell Polynomials

Ali Ahmed Abdullah

Aligarh Muslim University, Aligarh, India
e-mail: aliamugh7573@gmail.com

Abstract

The purpose of the present study is to construct Kantorovich type Szász operators based on confluent-Appell polynomials. The universal Korovkin-type criterion is used to verify the convergence behavior of these operators, while the classical modulus of continuity is employed to determine their order of approximation. In addition, numerical and graphical examples are presented to illustrate and support the results.