

**ESTIMATES WITH OPTIMAL CONSTANTS USING  
WEIGHTED  $K$ -FUNCTIONALS ON SIMPLEX**

**BY**

**MARIA TALPĂU DIMITRIU**

**Abstract.** We present general estimates of the degree of approximation by positive linear operators with the weighted  $K$ -functionals  $K_{1,\varphi,p}^s$ ,  $1 \leq s, p \leq \infty$ .

**Mathematics Subject Classification 2010:** 41A36, 41A25.

**Key words:** positive linear operators, Peetre's  $K$ -functional, degree of approximation.