

# Random linear operators arising from piecewise linear interpolation on the unit interval

José A. Adell and Daniel Cárdenas-Morales

*Dedicated to Professor Francesco Altomare on the occasion of his 70th birthday.*

**Abstract.** We introduce a sequence of random linear operators arising from piecewise linear interpolation at a set of random nodes on the unit interval. We show that such operators uniformly converge in probability to the target function, providing at the same time rates of convergence. Analogous results are shown for their deterministic counterparts, derived by taking expectations of the aforementioned random operators. Special attention is paid to the case in which the random nodes are the uniform order statistics, where an explicit form for their associated deterministic operators is provided. This allows us to compare the speed of convergence of the aforementioned operators with that of the random and deterministic Bernstein polynomials.

**Mathematics Subject Classification (2010).** Primary 41A25; Secondary 60E05.

**Keywords.** random linear operator, uniform convergence in probability, Ditzian-Totik modulus of smoothness, uniform order statistics, rate of convergence, confidence band.

## 1. Introduction

Let  $\mathbb{N}$  be the set of positive integers and  $\mathbb{N}_0 = \mathbb{N} \cup \{0\}$ . Denote by  $1_A$  the indicator function of the set  $A$ , and by  $e_i$ ,  $i \in \mathbb{N}_0$ , the monomial function  $e_i(x) = x^i$ . As usual,  $C[0, 1]$  stands for the space of all real continuous functions defined on  $[0, 1]$  endowed with the supremum norm  $\|\cdot\|_\infty$ , and  $C^m[0, 1]$  denotes the subspace of all  $m$ -times continuously differentiable functions. Throughout this paper, we assume that  $n \in \mathbb{N}$  and  $f \in C[0, 1]$ .

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# Random Linear Operators

**Lauren Gardner**



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