Pan, V. Y.


Let $A = \{\cos((2k + 1)/(2n + 2))\pi\}_{k=0,\ldots,n}$, the author proves the following results: interpolation to a polynomial of a degree at most $n$ on the node set $A$ can be performed by using $O(n \log n)$ arithmetic operations; a polynomial of degree at most $n$ can be evaluated on the node set $A$ at the cost of $O(n \log n)$ arithmetic operations.

Reviewer: N.Țândâreanu (Craiova)

MSC:
65D05 Numerical interpolation
65Y20 Complexity and performance of numerical algorithms

Keywords:
 polynomial interpolation; Chebyshev nodes; computational complexity; fast algorithms

Full Text: DOI

References:


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