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ON THE DEGREE OF APPROXIMATION OF SIGNALS $\mathrm{Lip}(\alpha, r)$, $(r \geqslant 1)$ CLASS BY ALMOST RIESZ MEANS OF ITS FOURIER SERIES

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Abstract. In the present paper, an attempt is made to obtain the degree of approximation of signals (functions) belonging to the $\mathrm{Lip}(\alpha, r)$ class, using almost Riesz summability method of its Fourier series, so that some theorems become particular case of our main theorem. Analysis of signals or time functions is of great importance, because it conveys information or attributes of some phenomenon. The engineers and scientists use properties of Fourier approximation for designing digital filters.

Mathematics subject classification (2010): 40C99, 40G99, 41A25, 42A16.
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