Lü, Feng; Wang, Yanfeng; Xu, Junfeng
Entire functions sharing a small function with their two difference operators. (English)

Summary: In this article, we deduce a uniqueness result of entire functions that share a small entire function with their two difference operators, generalizing some previous theorems of A. El Farissi et al. [Complex Anal. Oper. Theory 10, No. 6, 1317–1327 (2016; Zbl 1354.30020), Theorem 1.1] and B. Chen and S. Li [Adv. Difference Equ. 2014, Paper No. 311, 11 p. (2014; Zbl 1417.30018), Theorem 1.1] by omitting the assumption that the shared small entire function is periodic.

MSC:
39A70 Difference operators
39A45 Difference equations in the complex domain
30D35 Value distribution of meromorphic functions of one complex variable, Nevanlinna theory

Keywords: uniqueness; entire functions; difference operators; Nevanlinna theory

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References:

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