DIFFERENTIAL EQUATION OF ASSOCIATED GENERALIZED FIBONACCI POLYNOMIALS $U_{n,m}^{(k)}(x; c)$

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Abstract

G. B. Djordjević [G. B. Djordjević, Generalization of the Fibonacci and Lucas polynomials, Filomat 23(3) (2009), 291-301] defined the generalized Fibonacci polynomials $U_{n,m}^{(k)}(x)$. We define associated generalized Fibonacci polynomials $U_{n,m}^{(k)}(x; c)$, and examine differential equation satisfied by them.