



**DIFFERENTIAL EQUATION OF ASSOCIATED
GENERALIZED HUMBERT POLYNOMIALS**

$$V_{n,m}^{(\alpha)}(x, y; c)$$

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Abstract

We define associated generalized Humbert polynomials $V_{n,m}^{(\alpha)}(x, y; c)$, ([Weiping Wang and Hui Wang, Generalized Humbert polynomials via generalized Fibonacci polynomials, Appl. Math. Comput. 307 (2017), 204-216; K. S. Dhounis, General study on polynomials associated with Humbert polynomials, Int. J. Engineering Research 13 (2018), 10175-10180]) and examine differential equations satisfied by them.

Keywords and phrases: differential equations, generalized Humbert polynomials.

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