

An Audit of Climate Change and Sustainability Teaching in Medical School

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Abstract : The Bell polynomials are special polynomials in combinatorial analysis that have a wide range of applications in mathematics. They have interested many authors. The exponential partial Bell polynomials have been well reduced to some special combinatorial sequences. Numerous researchers had already been interested in the above polynomials, as evidenced by many articles in the literature. Inspired by this work, in this work, we propose a family of special polynomials named after the 2-successive partial Bell polynomials. Using the combinatorial approach, we prove the properties of these numbers, derive several identities, and discuss some special cases. This family includes well-known numbers and polynomials such as Stirling numbers, Bell numbers and polynomials, and so on. We investigate their properties by employing generating functions

Keywords : 2-associated r -Stirling numbers, the exponential partial Bell polynomials, generating function, combinatorial interpretation

Conference Title : ICAPAM 2022 : International Conference on Advances in Pure and Applied Mathematics

Conference Location : Istanbul, Türkiye

Conference Dates : October 20-21, 2022