

Editorial

p -Adic Analysis with q -Analysis and Its Applications

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Bernoulli numbers, Bernoulli polynomials, and Euler numbers, Euler polynomials were studied by many authors. Bernoulli numbers, Bernoulli polynomials, Euler numbers, and Euler polynomials possess many interesting properties and arise in many areas of mathematics and physics. These numbers are still in the center of the advanced mathematical research. Especially, in number theory and quantum theory, they have many applications.

p -Adic analysis with q -analysis includes several domains in mathematics and physics, including the number theory, algebraic geometry, algebraic topology, mathematical analysis, mathematical physics, string theory, field theory, stochastic differential equations, quantum groups, and other parts of the natural sciences.

The intent of this special issue was to survey major interesting results and current trends in the theory of p -adic analysis associated with q -analogs of zeta functions, Hurwitz zeta functions, Dirichlet series, L -series, special values, q -analogs of Bernoulli, Euler, and Genocchi numbers and polynomials, q -integers, q -integral, q -identities, q -special functions, q -continued fractions, gamma functions, sums of powers, q -analogs of multiple zeta functions, Barnes multiple zeta functions, multiple L -series, and computational and numerical aspects of q -series and q -analysis.

The Guest Editors and Referees of this special issue are well-known mathematicians that work in this field of interest. Thus, we got the best articles to be included in this issue.

The results and properties of accepted papers are very interesting, well written, and mathematically correct. The work is a relevant contribution in the field of applied mathematics.

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