
JOON YOP LEE, POSTECH

Eulerian and Stirling numbers over multisets

By combinatorially analyzing identities of Eulerian and Stirling numbers, we define Eulerian and Stirling numbers over multisets and generalize these identities. Using these generalized identities, we also compute Eulerian and Stirling numbers over multisets and provide q -analogs some of these generalized identities. The main tools to derive these results are products of simplexes and their triangulations.