

عنوان مقاله:

Refinements of the Bell and Stirling numbers

محل انتشار:

فصلنامه معادلات در ترکیبات, دوره 7, شماره 4 (سال: 1397)

تعداد صفحات اصل مقاله: 18

نویسنده:

Tanay Wakhare - *University of Maryland*

خلاصه مقاله:

We introduce new refinements of the Bell, factorial, and unsigned Stirling numbers of the first and second kind that unite the derangement, involution, associated factorial, associated Bell, incomplete Stirling, restricted factorial, restricted Bell, and r -derangement numbers (and probably more!). By combining methods from analytic combinatorics, umbral calculus, and probability theory, we derive several recurrence relations and closed form expressions for these numbers. By specializing our results to the classical case, we recover explicit formulae for the Bell and Stirling numbers as sums over compositions.

کلمات کلیدی:

Bell numbers, Stirling numbers

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1194879>

