Dan Romik  
Publication list

Date last updated: September 28, 2022

Downloadable versions of the publications listed below can be found on my publications page [https://www.math.ucdavis.edu/~romik/publications/](https://www.math.ucdavis.edu/~romik/publications/).

Books


Journal publications


34. On the number of $n$-dimensional representations of $SU(3)$, the Bernoulli numbers, and the Witten zeta function. *Acta Arithmetica* 180 (2017), 111–159.


10. Some formulas for the central trinomial and Motzkin numbers. \textit{J. of Integer Sequences} 6 (2003), article 03.2.3.


Publications in conference proceedings


Patents


Software

I have developed and self-published the following mathematical software applications and packages:

- **MadHat** — mathematical typesetting software, 2019–2022. Available at [https://madhat.design](https://madhat.design)

- Mathematical simulation desktop applications:
  - MacSort, 2008

Available at [https://www.math.ucdavis.edu/~romik/software/](https://www.math.ucdavis.edu/~romik/software/)

- Mathematical research software packages:
  - **OrientedSwaps, Mathematica** package, 2019. Developed jointly with Elia Bisi, Fabio Cunden and Shane Gibbons.
  - **SofaBounds**, Unix software application, 2017. Developed jointly with Yoav Kallus.
– SU3-ASYM, Mathematica package, 2015.

Available at https://www.math.ucdavis.edu/~romik/software/