The Institute of Combinatorics and its Applications

The 2024 **Hall Medal** is awarded to **Rajko Nenadov**

Hall Medals recognize **extensive quality research with substantial international impact** by Fellows of the ICA in mid-career.

Rajko Nenadov is regarded by his nominators as one of the best five combinatorialists in the southern hemisphere across all career stages, and more broadly one of the very best mathematicians in New Zealand under the age of 50. Rajko has already published 37 papers, and has submitted another 10. This is remarkable, given that he obtained his PhD only eight years ago (in 2016), and worked for almost four years for Google as a Software Engineer after his PhD, whilst simultaneously carrying out very high quality research and writing this up in papers, often as sole author. Many of his papers have been published in leading generalist journals including Adv. Math., Trans. Amer. Math. Soc., Israel J. Math., Bull. Lond. Math. Soc., Proc. Amer. Math. Soc. and Int. Math. Res. Not. IMRN, as well as in the very best journals in his field including Combinatorica, J. Combin. Theory Ser. B and Random Structures Algorithms. He has solved a number of open problems, initiated new research directions, and simplified proofs of some of the cornerstone results in his field. A couple of his proofs have appeared in full length in the textbook *Introduction to Random Graphs* by Frieze and Karoński.

Rajko's high standing is witnessed by collaborations with the some of the world's best combinatorialists, such as Noga Alon, David Conlon and Jacob Fox, as well as rising stars such as Huy Tuan Pham. His nominators confidently predict that Rajko will be one of the best combinatorialists in the southern hemisphere for the coming decades, and also one of the leaders in the field worldwide.

The Institute of Combinatorics and its Applications is an international scholarly society that was founded in 1990 by Ralph Stanton; the ICA was established for the purpose of promoting the development of combinatorics and of encouraging publications and conferences in combinatorics and its applications.