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**Ron Aharoni\*** ([ra@tx.technion.ac.il](mailto:ra@tx.technion.ac.il)), Math Dpt. Technion, Haifa, Israel. *The topological connectivity of the complex of independent sets of a graph.*

Topological connectivity of the independence complex (the set of independent sets) of a graph has proved to be a powerful tool in various types of problems. For example, in finding independent sets that satisfy certain additional conditions, or in coloring problems. I will survey results concerning lower bounds on the connectivity, and their applications. (Received February 01, 2008)