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Turan's theorem -- proofs and an algorithmic application

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Date: 8 Jan 2016
Time: 2.30pm – 3.30pm
Venue: MME Journal Room

Abstract: Turan's theorem is a fundamental theorem in extremal graph theory that gives a bound for the number of edges in a graph with no cliques of certain size. Starting with some simple (textbook) proofs of this theorem, we will see an application of it to prove a lower bound for finding a mode (the most frequent element) in a multiset of elements using only equality comparisons.
(Joint work with Varunkumar Jaypaul, Ian Munro and Srinivasa Rao Satti).

About Venkatesh Raman: I did PhD at University of Waterloo, Canada and I have been with the Institute of Mathematical Sciences in Chennai, India since 1991 where I am currently a professor. My research interests include data structures and parameterized complexity. You can find more details at www.imsc.res.in/~vraman

All are Welcome!