

Guangzhou Discrete
Mathematics Seminar



On variable Lovász local lemma



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Lovász local lemma states that given a dependency relation of random events, under which the probabilities are bounded, these events cannot cover the whole space. In applications, the events are related, usually because they share random variables. In a more specific variable-event dependency relation, the events may require higher probabilities to cover the whole space. For some cases we show the new probabilities bounds, and answer whether there is a gap between the two bounds.

Guangzhou Discrete Mathematics Seminar

Website <http://www.gzdmseminar.cn>

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