



Minisymposium 19 - Random Discrete Structures and Algorithms

Clarkson's randomized linear programming algorithms revisited

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Unique sink orientations and *violator spaces* are abstract problem classes that cover linear programming but also more general problems on which simplex-type methods may cycle even in nondegenerate situations. In this talk, I will discuss the behavior of Clarkson's randomized linear programming algorithms on problems from these classes. The goal is to extract the combinatorial properties that make the algorithms work (efficiently).