Algorithmic and quantitative real algebraic geometry - DIMACS workshop, Algorithmic and quantitative aspects of real algebraic, geometry in mathematics and computer science, March 12-16, 2001, DIMACS Center

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DIMACS

UNC Chapel Hill Mathematics Department Colloquium, October 8, 2018.

DIMACS/DIMATIA/Renyi Working Group on Algebraic and Geometric Methods in Combinatorics

Semi-monotone sets and triangulation of tame monotone families.

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Suciu; ; appeared in: Topology and Appl.

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Each chapter fully details and provides a tutorial introduction to important concepts and results. Smith and Bernd Sturmfels; ; appeared in: In Computations in algebraic geometry with Macaulay 2, pp 55-70, Springer-Verlag, 2001.

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Micha Sharir, Tel Aviv University and NYU This talk describes various topics that lie at the interface between the two disciplines, such as

construction and analysis of arrangements of algebraic surfaces, lower bound proofs, robust computations, and more. A finite geometry finite projective plane P of order q is a family of q 2+ q+1 subsets called lines of a base set of size q 2+ q+1 called the set of points , where each line has q+1 points, and any two of the lines have exactly one point in common. Hell and Nesetril have obtained preliminary results giving algorithms for these questions and some generalizations, and we shall pursue this investigation in this working group.

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An open-source project could, perhaps, find better answers to the obvious problems such as availability, bugs, backward compatibility, platform independence, standard libraries, etc.

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By studying the critical points of the restriction to the variety of the distance function to one well chosen point, one can compute a set of zero-dimensional systems whose zeros contain at least one point on each semi-algebraically connected component of the studied variety. Of special interest is the use of these connections in understanding typical, as opposed to extremal, behavior of combinatorial phenomena such as graph coloring and homomorphisms. Festschrift for Antonio Campillo on the Occasion of his 65th Birthday.

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