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Applications of Computational Algebraic Geometry ...

Computational algebraic geometry (see, for example, [12], [13], [65]) might then
provide algorithms to implement this idea, avoiding numerical methods altogether.
Consequently, the constraint ...

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Applications of Computational Algebraic Geometry

While the focus of MCAG conferences is on computational aspects of algebraic
geometry, we encourage participants and talks from all areas and applications of
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algebraic geometry in coding theory and cryptography.

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Introduces readers to key ideas and applications of computational algebraic
geometry. This book begins with an introduction to Grobner bases and resultants,
then discusses methods for solving systems of polynomial equations.

Applications of Computational Algebraic Geometry

Motivated by these exciting developments, the year in algebraic geometry and its
applications aims to bring together mathematicians, computer scientists,
economists, statisticians and engineers from various disciplines in order to
enhance interactions, generate new applications and motivate further progress.

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Modern tools from computational algebraic geometry have great po-tential in
applications, but their use requires a concerted effort to transfer this technology
into the hands of applied scientists. Sottile will work on projects ranging from basic
research in real algebraic geometry and Schubert calculus to interdisciplinary work
on applications of algebraic geometry, all with

Applicable Algebraic Geometry: Real Solutions ...

Computational algebraic geometry is an area that has emerged at the intersection
of algebraic geometry and computer algebra, with the rise of computers. It consists
mainly of algorithm design and software development for the study of properties of
explicitly given algebraic varieties.

Algebraic geometry - Wikipedia

I used computational algebraic geomtery (CAG) to analyse them. One of the
examples that I can give you is the kinematic analysis of a simple four-bar linkage

with equal link lengths. Concepts from algebraic geometry (such as prime decomposition of ideals) tells us that this mechanism can have three different kinds of degrees of freedom (called operation modes in the kinematics lingo): two rotations and a translation.

"Real"-life applications of algebraic geometry ...

Since then, the scope of geometry has been greatly expanded, and the field has been split in many subfields that depend on the underlying methods—differential geometry, algebraic geometry, computational geometry, algebraic topology, discrete geometry (also known as combinatorial geometry), etc.—or on the properties of Euclidean spaces that are disregarded—projective geometry that ...

Geometry - Wikipedia

Computational Algebraic Geometry and Applications June 2-6, 2006, Nice, France. ... Computational aspects in the theory of singularities, Joos Heintz (Universidad de Buenos Aires, Argentina and Universidad de Catanbria, Spain): Nullstellensatze before and after André Galligo,

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Applications of Computational Algebraic Geometry: American ...

Laurent Buse (Inria Sophia Antipolis), Ron Goldman (Rice University), Hal Schenck (University of Illinois). August 7-12, 2016. Abstract The aim of this workshop was to present new results, algorithms, developments and applications of effective algebraic geometry (computational algebra) in geometric modeling. On the one hand, Algebraic Geometry has developed an impressive theory targeting the understanding of geometric objects defined algebraically.

Computational Algebra and Geometric Modeling

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Recent advances in both the theory and implementation of computational algebraic geometry have led to new, striking applications to a variety of fields of research. The articles in this volume highlight a range of these applications and provide introductory material for topics covered in the IMA workshops on "Optimization and Control" and "Applications in Biology, Dynamics, and Statistics" held during the IMA year on Applications of Algebraic Geometry.

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