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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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geometry, we

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There is a particular

interest on

applications of

algebra and algebraic

geometry in coding

theory and

cryptography.

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an introduction to
Grobner bases and
resultants, then
discusses methods
for solving systems of

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polynomial equations.

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Motivated by these
exciting
developments, the
year in algebraic
geometry and its
applications aims to
bring together
mathematicians,
computer scientists,

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economists,
statisticians and
engineers from
various disciplines in
order to enhance
interactions, generate
new applications and
motivate further
progress.

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computational algebraic geometry have great potential 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

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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

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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](#)

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I used computational algebraic geometry (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

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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

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greatly expanded, and the field has been split in many subfields that depend on the underlying

methods—differential geometry, algebraic geometry,

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geometry, algebraic topology, discrete geometry (also known as combinatorial geometry), etc.—or on

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the properties of
Euclidean spaces that
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[Mathematical
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of singularities, Joos
Heintz (Universidad
de Buenos Aires,
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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

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modeling. On the one hand, Algebraic Geometry has developed an impressive theory targeting the understanding of geometric objects defined algebraically.

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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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