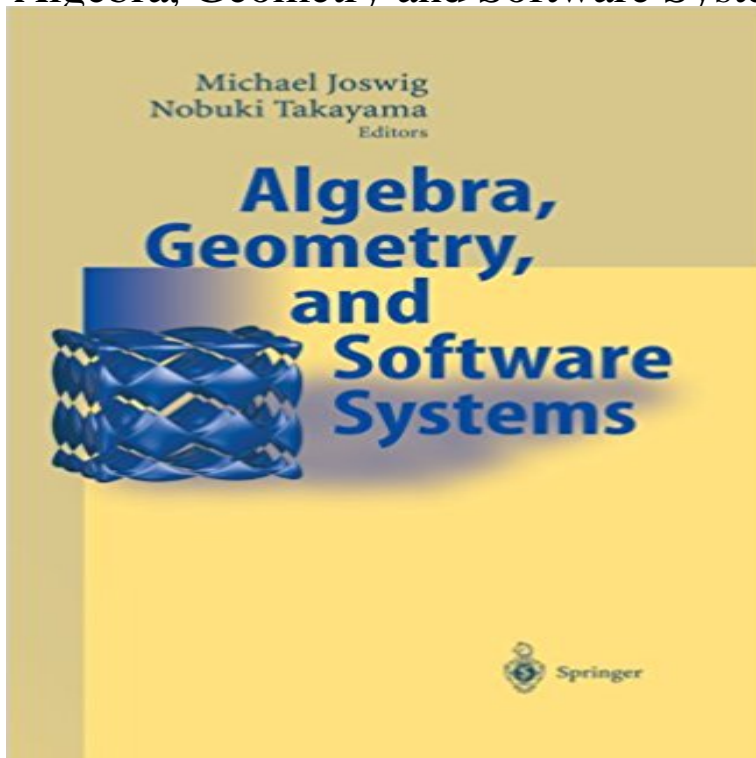


Algebra, Geometry and Software Systems



A collection of surveys and research papers on mathematical software and algorithms. The common thread is that the field of mathematical applications lies on the border between algebra and geometry. Topics include polyhedral geometry, elimination theory, algebraic surfaces, Grobner bases, triangulations of point sets and the mutual relationship. This diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects. This is why the volume also focuses on solutions to the integration of mathematical software systems. This includes low-level and XML based high-level communication channels as well as general frameworks for modular systems.

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calculus in the software system GeoGebra. Markus Hohenwarter and Karl Fuchs. July 2004. Abstract: Dynamic
Algebra, Geometry and Software Systems: : Michael the reason for it is the lack of integrations of algebra and
geometry software systems. As readers will see in the body of this paper, the systematic study of **Macaulay2 - UIUC**
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handle only special mathematical aspects. This is why the volume **Numerical Algebraic Geometry -- Numerical**
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software linked to SINGULAR. **Algebra, Geometry and Software Systems by Michael Joswig** Mathematical
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[4] is a Euclidean, construction-based, drawing system. GeoGebra is software that joins geometry, algebra and calculus
for mathematics **Magma Computational Algebra System** @Misc{M2, author = {Grayson, Daniel R. and Stillman,
Michael E.}, title = {Macaulay2, a software system for research in algebraic geometry}, howpublished