



**Computer Algebra in Scientific Computing: 8th
International Workshop, CASC 2005, Kalamata,
Greece, September 12-16, 2005, Proceedings
(Lecture Notes ... Computer Science and General
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CASC 2005 continued a tradition - started in 1998 - of international conferences on the latest advances in the application of computer algebra systems (CASs) and methods to the solution of various problems in scientific computing. The methods of scientific computing play an important role in research and engineering applications in the natural and the engineering sciences. The significance and impact of computer algebra methods and computer algebra systems for scientific computing has increased considerably in recent times. Nowadays, such general-purpose computer algebra systems as Maple, Magma, Mathematica, MuPAD, Singular, CoCoA and others enable their users to solve the following three important tasks within a uniform framework: (a) symbolic manipulation; (b) numerical computation; (c) visualization. The ongoing development of such systems, including their integration and adaptation to modern software environments, puts them at the forefront in scientific computing and enables the practical solution of many complex applied problems in the domains of natural sciences and engineering. Greece offers excellent infrastructures for hosting international conferences, and this was a reason for us to choose the city of Kalamata, Greece, as the location for CASC 2005, the eighth conference in the sequence of CASC conferences. The seven earlier CASC conferences, CASC 1998, CASC 1999, CASC 2000, CASC 2001, CASC 2002, CASC 2003, and CASC 2004 were held, respectively, in St. Petersburg, Russia, in Munich, Germany, in Samarkand, Uzbekistan, in Konstanz, Germany, in the Crimea (Ukraine), in Passau (Germany), and in St. Petersburg, Russia, and they proved to be successful.

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