



International conference  
"Advanced Mathematics, Computations  
& Applications - 2014"

Международная конференция  
"Актуальные проблемы вычислительной  
и прикладной математики - 2014"

ABSTRACTS

ТЕЗИСЫ



INSTITUTE OF COMPUTATIONAL MATHEMATICS  
AND MATHEMATICAL GEOPHYSICS  
SIBERIAN BRANCH OF RUSSIAN ACADEMY OF SCIENCES

**International conference**  
**ADVANCED MATHEMATICS, COMPUTATIONS**  
**AND APPLICATIONS – 2014**

**ABSTRACTS**



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The International conference on advanced mathematics, computations and applications (AMCA'14) is dedicated to the 50th anniversary of the Institute of computational mathematics and mathematical geophysics (the former Computing Center) of Siberian branch of the Russian Academy of sciences (ICM&MG SB RAS), founded by academician G. I. Marchuk. The goal of this conference is to bring together well-known experts involved in numerical analysis, applied mathematics, computational technologies, challenging applications and to discuss the topical issues facing the mathematical community.

The topics of AMCA'14 are the four major areas of interest of the ICM&MG SB RAS:

- numerical analysis,
- applied mathematics and mathematical modeling,
- parallel and distributed computations,
- information systems.

The topics of "AMCA'14" include, but are not limited to the following: computational algebra, numerical solution of differential and (or) integral equations, computational geophysics, inverse problems, statistical modeling and Monte Carlo methods, high performance computing, advanced problems in scientific programming, data-intensive processing and communications.

The conference is supported by the Russian Foundation for Basic Research,  
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**Informational support:**

- “Poisk” newspaper
- “Science in Siberia” newspaper

The web-site of the conference: <http://conf.nsc.ru/amca14>

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