Resolution of 8th All-Union Workshop
on Interval Mathematics

The workshop was organized by the Institute for Computational Technologies of SO AN USSR, State University of Kyrghyzstan and was held on October 3 – 4, 1991 in Bishkek. There were 20 participants at this workshop from Bishkek, Kiev, Krasnoyarsk, Moscow, Novosibirsk and St. Petersburg. Twelve lectures on the following topics were presented:

1) General questions in interval mathematics;
2) Interval methods for problem solving in algebra, analysis, differential and integral equations;
3) Interval computations and modern programming languages;
4) Improving the accuracy of interval computations.

An exchange of program tools took place.

The workshop brought to light:

- Further development of the theory of interval (localizational) computations and strengthening of its relation with other branches of mathematics and computer science;
- Possibilities for applying interval methods and their use in solving practical and theoretical problems;

The workshop decided:

- to request that the Institute for Computational Technologies SO AN USSR publish the workshop materials (articles of size up to 12 pages must be sent before December 1, 1991);
- to study the question of standardization of the language for publishing algorithms (in particular, whether to use the language PASCAL-XSC for this purpose);
- to hold the next Workshop in October 1992 in Bishkek.