CONTEST RULES FOR MATHEMATICAL AND COMPUTER MODELING

General Rules:

1. Contest assignments are issued to all participants at the same time.

2. The assignment consists of two parts: the first is dedicated to mathematical modeling, and the second to computer modeling.

3. The contest lasts for 2 hours. The recommended time distribution format is:

   – 30 minutes for mathematical modeling
   – 60 minutes for computer modeling
   – 30 minutes for writing down the results

4. Each participant must work independently. When working on the assignment, any «inanimate» sources of information may be used: websites, publicly available databases, reference books, programs and other materials etc.

   The ability to find and use such a source reflects positively on the work. Consultations, receiving hints, or other assistance from any individuals are strictly prohibited.

   It is also forbidden to use any neural network models to generate ideas, solutions, or the text of the work.

5. The work is submitted in the form of the following separate artifacts:

   - The solution to the first part is submitted as a mathematical solution on signed sheets or as a PDF file.
   - The solution to the second part is submitted in the form of several artifacts; all of them are mandatory:
     - solution code,
     - XLSX/XLS file or CSV file with filled fields required by the task conditions; this file must be a modification of the original data file,
     - description of the solution idea on written in XLS-sheets or as a separate PDF file.

   All files must be sent at the end of the competition to roman.gusarev@h-is.com

6. When evaluating the work, the commission will consider not only the quality of the results obtained in parts 1 and 2 but also the justification and description of the solution ideas.

7. Remember that the task is designed in such a way that it is practically impossible to find an exact and maximally effective solution in the allotted time. Therefore, your task is to try to find an algorithm that allows for the best approximation.

   If in the second part you have a solution idea (or its modification) but you cannot (or do not have time to) implement it, describe the idea anyway. This will give you additional points.