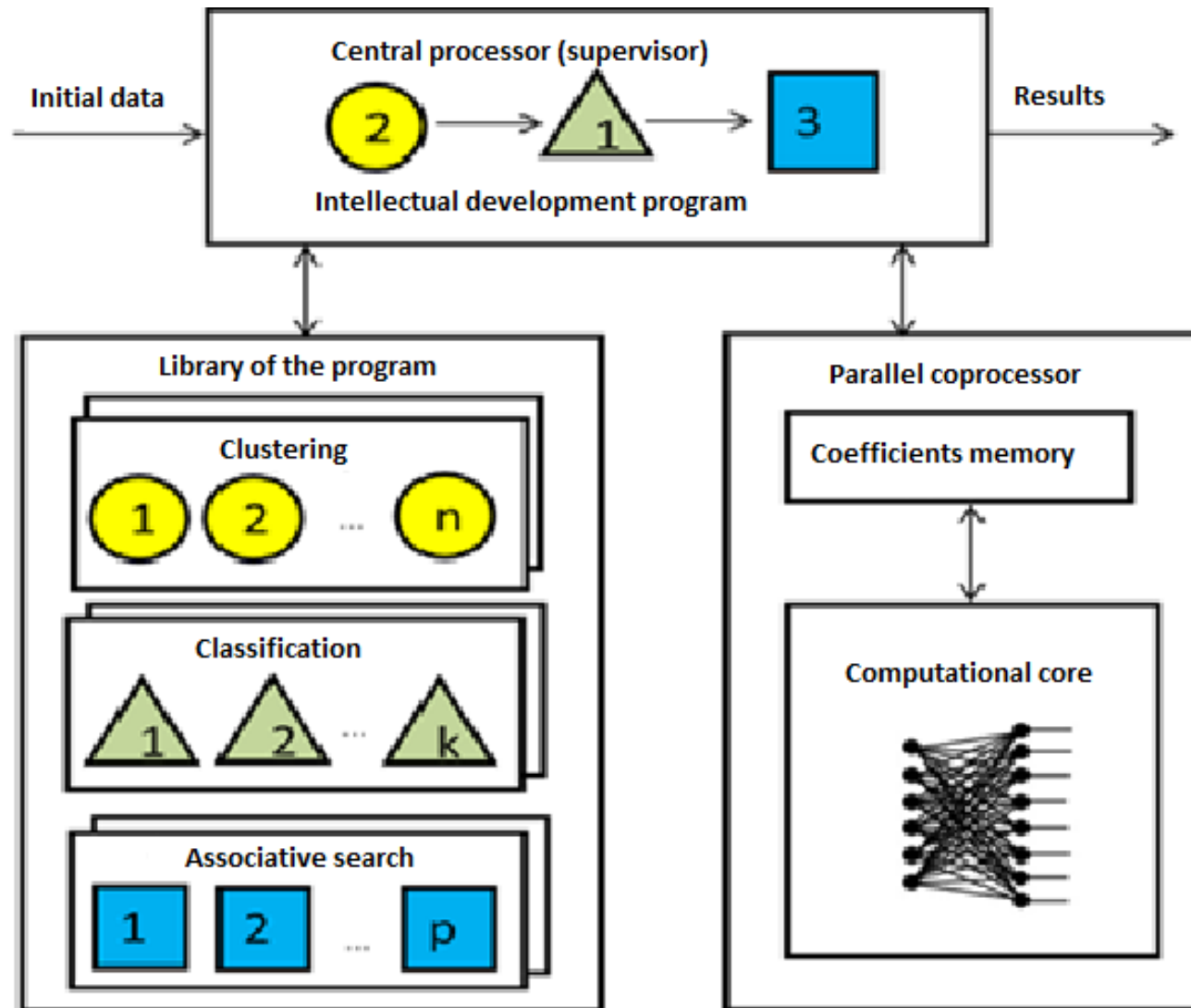


**"Intellectual supercomputer"** or creation of technology of intellectual analysis of large data with application in applied fields (criminalistics, electronic commerce, forecasting of emergency situations, modeling of social networks, etc.)



## **Condition of works.**

Preliminary fundamental research was carried out for 10 years. The concept of building an intelligent supercomputer is developed. Single samples of parallel processors and computer systems have been created. There are domestic and foreign publications confirming the author's novelty of the project. At present the project is being developed with the support of the Ministry of Education of the Republic of Belarus. Two universities and one institute of the Academy of Sciences are involved in the project.

## **Project development plan**

Stage 1. Development of the base original Data Mining software for the serially produced hardware platform (GPU NVIDIA & CUDA). Algorithms will be merged into a library and will form the mathematical basis of the computing system. The system will provide tools for automating the setting of experiments and visualizing the results of processing.

Stage 2. Software development for a number of application systems for specific consumers.

Stage 3. Development of specialized hardware processors for computer systems with specified characteristics and rigid design constraints.

**Cooperation modes:**

1. Implementation of joint developments.
3. Creation of a joint laboratory or enterprise.

**Contacts:** Mikhail Tatur      e-mail: [tatur@i-proc.com](mailto:tatur@i-proc.com)  
Anna Zhvakina      e-mail: [antim07@mail.ru](mailto:antim07@mail.ru)