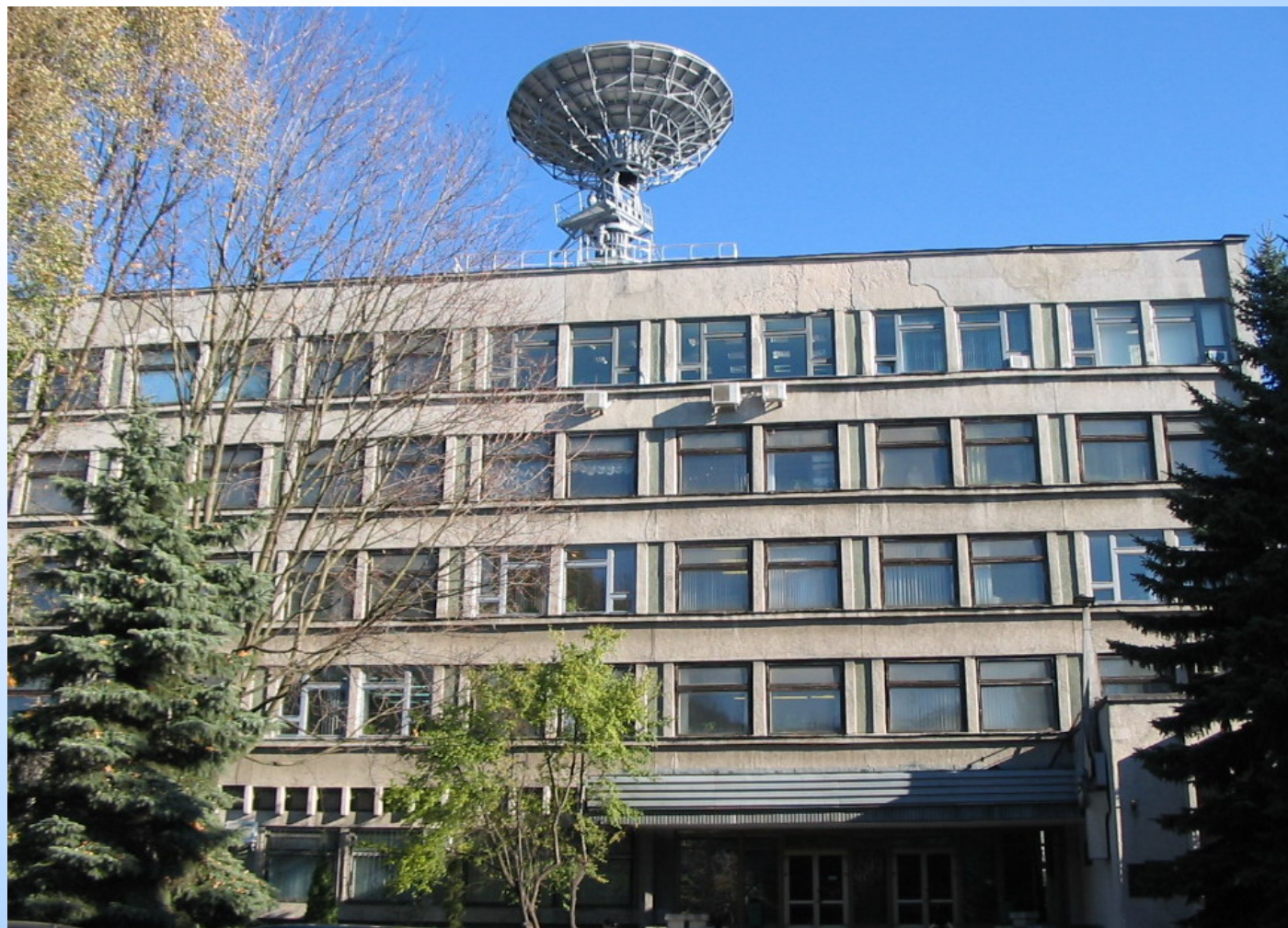


National Academy of Sciences of Belarus

United Institute of Informatics Problems



THE MAIN OBJECTIVES

- Fundamental and applied research in the fields of information technology, computer science, applied mathematics, computer aided design and some other attached fields.
- Cooperating with industrial research centers and enterprises in solving technical problems faced by the production sector in the field of computer aided design, computer aided engineering, new products testing, software and hardware development.
- Participating in formulation of national policies in the above mentioned fields in Belarus and in the long term R&D planning.
- Specialist education and training of high-qualified research staff capable to tackle the scientific and technological problems.

The directions of research:

- **Computer aided design (CAD/CAM/CAE)**
- **Processing and recognition of signals, images and speech**
- **Operations research and discrete optimization**
- **Decision making support systems**
- **Bio and medical informatics, ergonomics**
- **Geoinformation systems**
- **Supercomputer systems**
- **Computer networks and telematics**
- **Information protection**
- **Input-output of videoinformation**

International Cooperation

Participation in international research programs:

- **INTAS**
- **COPERNICUS**
- **STASIS**
- **UNESCO**
- **NATO**
- **ISTC (International Science and Technology Center)**
- **FP6, FP7**

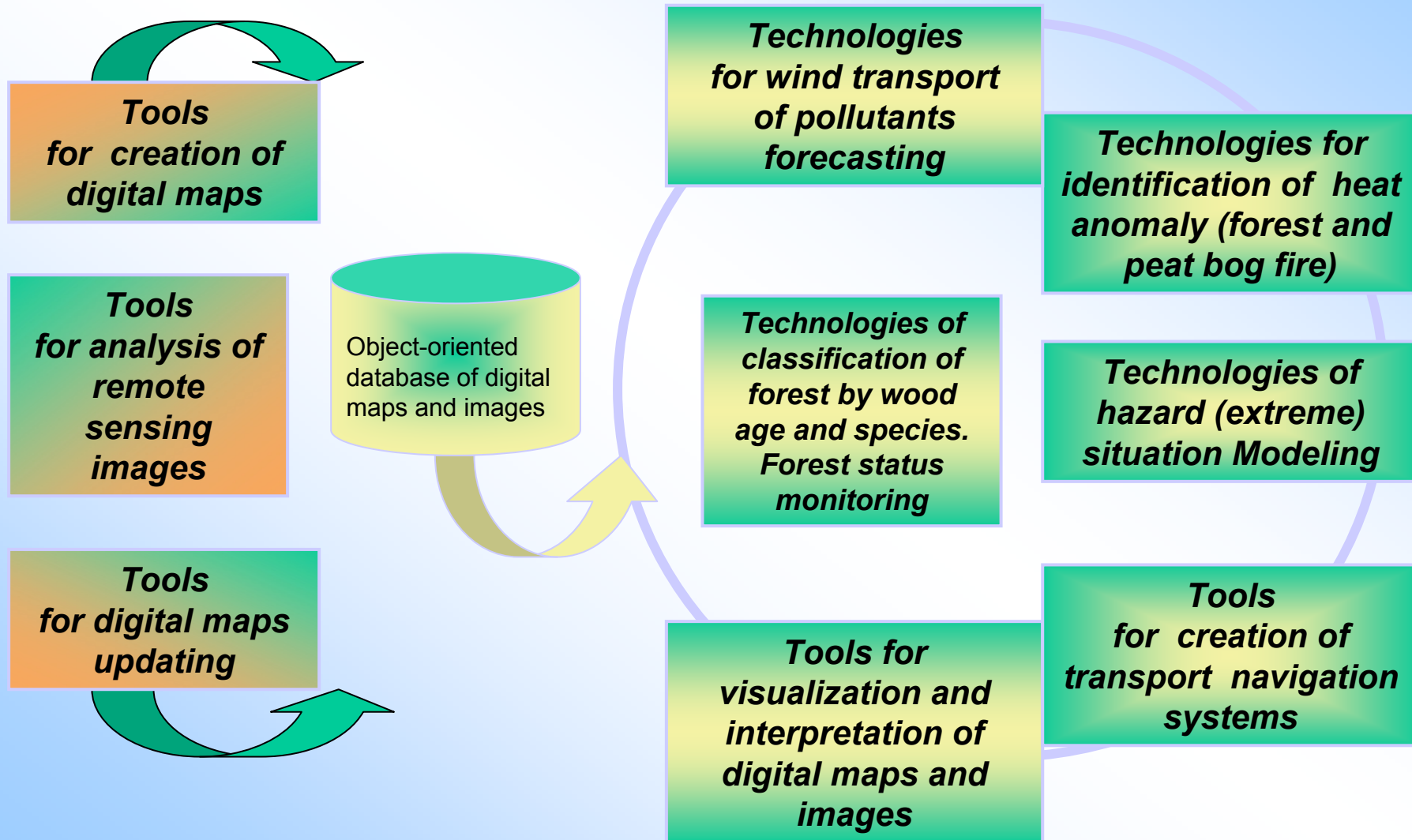
National branches of international Associations:

- **IEE**
- **IEEE**
- **EURO**
- **IAPR**

Individual membership in international organizations:

- **Institute of Electrical and Electronic Engineers**
- **Institute of Electrical Engineers**
- **American Mathematical Society**
- **International Association of Pattern Recognition**
- **New-York Academy of Sciences**
- **International Academy of Information Technology**
- **European Association on Speech Communication**
- **INTERNET Society**

Interpretation of remote sensing images and digital maps and their applications



Super-servers "SKIF K-1000" 2.5 Tflop



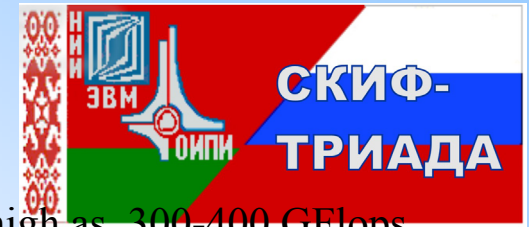
Development and production of families of high-performance parallel computers (supercomputers) and supercomputer-based application systems

(Joint Belarusian & Russian Program)





The family of personal clusters “SKIF-TRIADA”



Personal clusters “SKIF-TRIADA” have peak performance as high as 300-400 GFlops, cluster architecture, work under OC Linux and Windows Computer Cluster Server 2003, system network MPI as a basis for parallel programming, the program languages C/C++, Fortran.

Personal clusters “SKIF-TRIADA” are designed for complicated scientific and engineering calculations and modeling, can be used as robust Web-servers, mail -servers, databases-servers and others. Personal clusters “SKIF-TRIADA” take the gap between regular personal computer and supercomputer; give a possibility to use supercomputer technologies independently in organizations, subdivisions, and also at working desk of designer for personal calculating.

Two samples of personal clusters are developed as “tower” and ‘stand’



Medical information systems and complexes

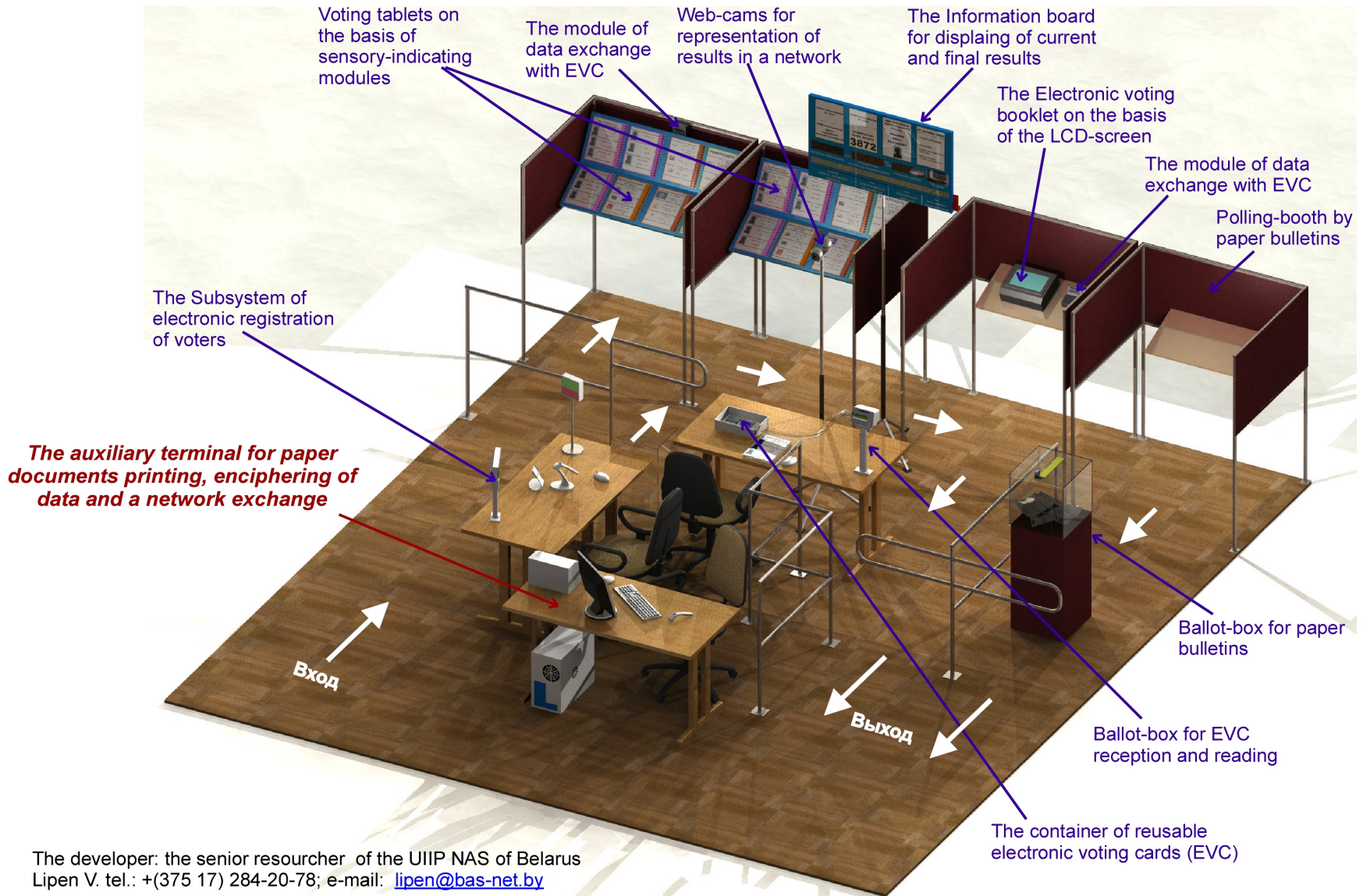


The institute develops the contemporary information technologies and soft-hardware decisions for medical institutions to increase the effectiveness and economy of diagnostic and treatment process. The developments cover all levels of activity of medical institutions, starting from individual working place of the doctor and up to the system for a whole region.



Electronic voting system

The project of electronic polling station with direct network announcement of current and final results



Future Conferences

- The 2nd International Conference on Advanced Information and Telemedicine Technologies for Health, October 1-3, 2008, Minsk, Belarus
- The 2nd International Conference «Supercomputer systems and applications» (SSA'2008), October 15-17, 2008, Minsk, Belarus
- Fifth International Conference «Information technologies in industry» (ITI'2008), October 21-24, 2008, Minsk, Belarus
- VII International Conference «Informatization development and systems of engineering information», November, 2008, Minsk, Belarus



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