INSTITUTE FOR SUPERHARD MATERIALS
DEPARTMENT OF INFORMATION TECHNOLOGY
AND TELECOMMUNICATIONS

Who we are

The department specializes in system analysis, management and processing of information in the development and application of new superhard materials, telecommunication systems and computer networks.

Collaboration interests

Methods of data mining to predict the development of new promising superhard materials. Installing the patterns and trends of science in information flows "superhard materials."

Research Areas

- Database Management Systems
- semantic neural network
- methods of searching, recording, organizing, processing, storing, updating and analysis of scientific and technical information.
- Materials Research Ontology

- Information system
- Information Technology
- Internet - Conference
- ISM representation on the Internet.

Reference project

Selection of NAS of Ukraine projects:

Development of an automated analysis system, prognosis of perspective tecnologies and use of superhard materials and Innovation and Investment software using Internet technologies (2002-2004)

Systematic use of materials science and corporate computer databases of UHM, forming and execution of research thematics of Institute (2005-2007)

Development of the programm complex for knowledge base management system in the field of the superhard materials production and application (2008-2010)

Contact information

Full name of the Research Department of **Information Technology and Telecommunications**

Full name of the Institute:
V.N. Bakul Institute for Superhard Materiasl of the National Academy of Sciences of Ukraine

Country: Ukraine

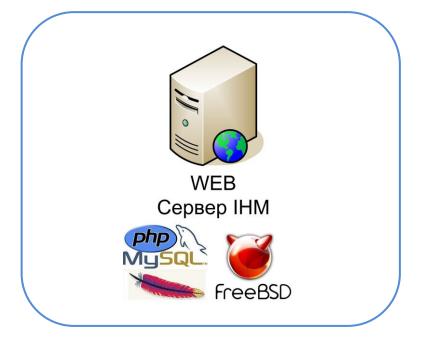Number of employees working in the research division: 16

Working languages: English, Russian, Ukrainian

Contact person: Vladimir Kulakovskyy, ph.d

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WEB Сервер IHM

Well-qualified workforces to operate in system analysis, telecommunication systems and computer networks.

Wide experience on database management systems, semantic neural network.

What makes us a good partner