**Speaking**

Theme of my dissertation is “Modeling of Problem-Oriented Information Systems”.

**Could you please tell me about your dissertation thesis?**

My dissertation thesis are investigations in areas of information systems, web-portals, Petri nets.

In my current research work I study Petri Nets theory

**Please, explain me the concept of information system more precisely and describe the applications.**

An Information System is any combination of [information technology](http://en.wikipedia.org/wiki/Information_technology) and people's activities using that technology to support operations, management, and decision-making. In a very broad sense, the term information system is frequently used to refer to the interaction between people, [algorithmic](http://en.wikipedia.org/wiki/Algorithmic) processes, data and technology. In this sense, the term is used to refer not only to the [information and communication technology](http://en.wikipedia.org/wiki/Information_and_communication_technology) an organization uses, but also to the way in which people interact with this technology in support of business processes.

**What types of information systems do you know?**

There are many different kinds of information systems. Some examples of similar kinds are: data warehouses, expert systems, geographic information systems. System under developing in my work is expert system. As a modeling tool for solving of problem under investigation Petri Nets have been used.

**Please, tell me the definition of Petri Nets.**

A Petri net (also known as a place/transition net) is one of several [mathematical](http://en.wikipedia.org/wiki/Mathematical) [modeling languages](http://en.wikipedia.org/wiki/Modeling_language) for the description of [distributed systems](http://en.wikipedia.org/wiki/Distributed_systems). A Petri net is a directed [bipartite graph](http://en.wikipedia.org/wiki/Bipartite_graph), in which the nodes represent transitions (i.e. events that may occur, signified by bars) and places (i.e. conditions, signified by circles). The directed arcs describe which places are pre- and/or postconditions for which transitions (signified by arrows). Petri nets have been developed from the early work of Carl Adam Petri. In his doctoral dissertation, “Communication with automata”, Petri formulated the basis for a theory of communication between asynchronous components of a computer system.

PN are particularly suited to represent logical interactions among parts in a system. Typical problems that can be modeled by PN are synchronization, sequence, concurrency and conflict.

**Describe the examples of the use of modeling by Petri nets.**

Examples of the use of modeling by Petri nets include astronomy (where models of the birth, death, and interaction of stars allow studying theories which would take long times and massive amounts of matter and energy), nuclear physics (where the radioactive atomic and subatomic particles under study exist for very short periods of time), sociology (where the direct manipulation of groups of people for study might cause ethical problems), biology (where models of biological systems require less space, time, and food to develop), and so on.

**Tell me about your current work at the institute.**

Aim of my current work is a design of decision support system which must be represented as a web-portal. I developed functional model of decision support system (DSS). Also, I performed some tests with group of content management system (CMS) (such as Drupal, Joomla and others) and selected CMS-Drupal for representation of DSS as web-portal.

**Tell me about the conferences have you participated.**

I have taken a part (participated (не знаю как лучше)) in the Conference of Young Scientists of our Institute - ICMMG (Institute of Computational Mathematic and Mathematical Geophysics). My thesis is “Modeling of Problem-Oriented Information Systems”.

**Please describe the project you work now.**

Currently, I take a part in the development of web-portal for Algorithms and Programs Foundation. This web-portal intends to collect different programs, algorithms and databases developed in SB RAS (Siberian Branch of Russian Academy of Science) institutes.

**What is your contribution in this project?**

**or**

**Have you already obtained any research results?**

My contribution in this project is the development of web-interface to this portal and news subsystem. Also I design advanced search form for the program catalog.

**Has your research been successful?**

I think so, because all my designs used on real web-portal.

**Do your research results appear to be of both theoretical and practical importance?**

No, my research results have mostly practical importance.

**What would you like to do after your defense of PhD?**

**or**

**Would you like to continue work in science?**

After my defense of PhD I would like to continue work with information systems, information technologies, but I think, it wouldn’t be work in science.

Could you please tell me about your diploma thesis?

What is the subject of your current research?

Please, explain me the concept of Timed Petri Nets more precisely and describe the applications.

Please, tell me some words, What is the difference between the graph modeling tool and Petri Nets models?

Tell me about your current work at the institute.

Describe the problem you work now.

Has your research been successful?

Have you already obtained any research results?

What is your contribution in the theory of Petri Nets?

Do your research results appear to be of both theoretical and practical importance?

What would you like to do after your defense of PhD?

Would you like to continue work in science?

In which conferences have you participated?