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## Professional Environment as an Information Analysis Object



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The professional environment is characterized by information processes modifying objects, means and products, activities and mentality. The paper deals with the items included in the information analysis of a professional environment and suggests a number of stages for its realization, including the compilation and study of different professional thesauri.

Specialists from Russia (Yu.A.Shrejder, N.P.Vaschekin, V.Z.Kogan) as well as foreign scholars (K.Lyytinen, Van Dijk, Johnson-Laird) are successfully developing the communication approach to information medium analysis. Along with this, the information approach to social communication analysis is also being developed (A.V.Sokolov). Both, the domestic and foreign scientists follow the research in modern logic conducted by A.V.Ilyenkov and J.Hintikka). The results of these studies prove that the ideal form of objects can be found in the human ability to produce and create them on the basis of their image, which is formed during the goal determination stage. Within "the logics of possible worlds" (J.Hintikka), the existence of ideal images of the inner world determines the possible trends of development of events.

The modeling of the professional development of an individual has become not only the problem of the individual alone, but of society in general. A successful professional choice guarantees a better realization of the creative potential of the individual. Modern profession research has achieved certain successes. Technologies of activities modeling and professional training modeling have been developed. Nevertheless, it is necessary to support them through the study of professional thesauri as structures of professional concepts and of discourses, including interrelated and ranged sets of professional expectations, definitions, and positions. The study of professional thesauri and discourses facilitate a typology of the professional environment of all kinds of professional activity.

By 'professional environment' we mean a continuously changing fragment of social space at the basis of which lie professional dynamics of three kinds:

- dynamics of professional activity objects, i.e. production, distribution, and exchange of products in this field;
- dynamics of professional activities of individuals, i.e.

the continuous education of employees;

- dynamics of the professional mind, i.e. changes in the relationships with the dynamics of the first two kinds, both inside and outside the social-professional group.

Information analysis should include: a) document flow monitoring; b) the study of the dynamics of professional structures; c) the study of continuous education in some professional spheres; d) the study of professional mentality.

It is necessary to create technology for each of these directions. There exist such well-known methods as bibliometry and the making up of maps of professional groups. Our choice was the construction of research instruments for professional mind study and modeling. We recommended the study of professional discourses as of complex structures of semantic images. These professional discourses consist of such substructures as: a) ranged values; b) ranged motivations; c) typical personal contact; d) substructure of professional satisfaction.

The main condition for the above-mentioned processes of information analysis is professional communication. This process requires modeling and control. We suggest the following stages of professional communication modeling: 1) conceptual modeling of the professional environment; 2) professional thesauri composing; 3) study of professional discourses in order to establish differences in employees activities from the point of view of their functions, age, place of residence, etc.; 4) selection of forms of knowledge representation (frames, semantic networks, rules); 5) programming of an expert system for professional communication management.

In our practical work we use the "GURU" shell installed on an IBM PC/AT.