

Determining the Effectiveness of Scientific Research of Universities Staff

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Abstract

The problem of determining the effectiveness of scientific research carried out by teachers of universities is considered. In particular, the results of the publishing activity of teachers are investigated. For the comparative analysis of teachers' effectiveness, it is offered to formalize this problem in a class of problems of multicriteria optimization and to apply methods of a multiattribute choice of variants. Approaches to aggregating the effectiveness of teachers' team and justifying the advantage of choosing the most productive teams over less productive ones are also proposed. The problems of determining the most effective teacher and the most effective team of teachers are given.

Keywords

Scientific activity of universities, teacher effectiveness, multicriteria optimization, weight coefficients, teacher ranking, aggregation of teachers' team effectiveness, the most effective teacher.

1. Introduction

Higher education plays an important role in the development of domestic science. In all developed countries, university science is the main factor in the development of science and is gradually becoming a powerful innovative factor not only in higher education but also in the development of the entire education system in Ukraine.

It is known that science is the most effective area of investment. It is estimated that the return on investment in science can be 500 percent or more [1, 2]. The effectiveness of scientific work in universities is assessed by various criteria. There are publications, indexes of citations of scientific papers, the novelty of scientific developments, conformity of the teacher publications to the disciplines that he teaches, and so on. It should be noted that both scientific and teaching activities are obviously poorly structured subject areas. For research of such areas, it is expedient, in particular, to apply methods of expert estimation and the theory of decision-making.

We can conclude on many grounds, that in recent decades, science, including science in our country, is gradually moving to universities. The importance of intensifying research in universities and stimulating the development of science by university teachers is due to a number of factors [3, 4]:

- almost 70% of doctors of sciences and more than 70% of candidates of sciences work in the system of higher education in Ukraine;
- more than 80% of postdoctorate and PhD students carry out their training at universities;
- high quality of education, the formation of adequate content of academic disciplines, modernization of practical and laboratory work can be fully ensured only through the use of relevant scientific advances;
- PhD thesis and Doctor of Science dissertation of teachers should be based on new knowledge and be the result of scientific activity;

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