

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;

IT&IT-2020: Information Technology and Innovations, December 02–03, 2020, KNU Taras Shevchenko, Kyiv, Ukraine

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Scientific Research Effectiveness

Barry Bozeman, Jan Youtie



Scientific Research Effectiveness:

Scientific Research Effectiveness J. Hurley, 2012-12-06 Baruch S Blumberg NASA Astrobiology Institute Ames Research Center Moffett Field CA USA Scientific research is one of the major human enterprises Many governments are convinced that research and its products provide the means to enrich an economic life that is no longer sustained by traditional manufacturing and service industries The public has a high expectation of medical research and many are convinced that with the expenditure of sufficient money all human diseases can be conquered they look forward to a long and disease free life There is also a great interest in many sectors of society to understand nature not only in order to control it or learn how best to cope with its uncertainties but to accumulate knowledge for its own sake Finally scientific research contributes significantly to the intellectual stores of humanity and provides an important process to explore the most profound questions of life Modern science is rarely a solitary occupation It requires heavy investments in equipment supplies buildings and field capabilities Scientists need a band of fellow explorers with whom to share the adventure discuss experiments and results and perhaps most importantly enable the testing and retesting of their hypotheses by themselves and by others This was certainly the case in my own research which led eventually to the discovery of the Hepatitis B virus and later to the vaccine for it Scientific training is very specialized whereas the solutions to problems transcend narrow disciplinary borders

Evaluating Research Efficiency in the U.S. Environmental Protection Agency National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Policy and Global Affairs, Committee on Science, Engineering, and Public Policy, Committee on Evaluating the Efficiency of Research and Development Programs at the U.S. Environmental Protection Agency, 2008-07-17 A new book from the National Research Council recommends changes in how the federal government evaluates the efficiency of research at EPA and other agencies Assessing efficiency should be considered only one part of gauging a program's quality relevance and effectiveness The efficiency of research processes and that of investments should be evaluated using different approaches Investment efficiency should examine whether an agency's R D portfolio including the budget is relevant of high quality matches the agency's strategic plan These evaluations require panels of experts In contrast process efficiency should focus on inputs the people funds and facilities dedicated to research and outputs the services grants publications monitoring and new techniques produced by research as well as their timelines and should be evaluated using quantitative measures The committee recommends that the efficiency of EPA's research programs be evaluated according to the same standards used at other agencies To ensure this OMB should train and oversee its budget examiners so that the PART questionnaire is implemented consistently and equitably across agencies

Evaluating Research Efficiency of Chinese Universities Yongmei Hu, Wenyan Liang, Yipeng Tang, 2017-03-16 This book employs the modern econometric approaches such as DEA Malmquist Index and Tobit models to evaluate research effectiveness and productivity of research oriented universities in China On the basis of five year longitudinal data of more

than a hundred Project 211 universities this book illustrates the current status of the effectiveness and productivity of research oriented universities demonstrating regional differences exploring dynamic changes and identifying underlying factors Any researcher or policymaker who cares about the recent development in Chinese higher education in the 21st century will benefit from our in depth analyses

Handbook of Research in School Consultation William P Erchul,Susan M Sheridan,2014-06-11 The field of school consultation which is centered principally in school psychology and cuts across related disciplines such as special education and school counseling has never had a comprehensive volume that examines its research perspectives and methodologies its models of practice and its future research directions That is the mission of this Handbook It provides both producers and consumers of school consultation with an invaluable snapshot of its current boundaries and rapidly growing content Key features of this outstanding new book include the following research oriented whereas many books dealing with school consultation practice have appeared over the last decade none has attempted to provide a comprehensive review of research findings and methods supporting its growing body of evidence based practice author expertise chapter authors are well known for their contributions to the school consultation research literature and collectively are recognized for their ability to translate scientific findings into implications for practice commentary chapters commentary chapters written by leading scholars provide integrative critiques of the book s three major sections This book is intended for researchers graduate students and practitioners in school psychology and related human service disciplines including special education counselor education counseling psychology and school social work

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