

SCIENCE OF RESEARCH

Zhaohao Sun

Updated 080804, 090907, 050615, 080616, 090517, 18-210717, 02-040817, 25 08 17, 150917, 081117, 060618, 02 08 18, 060219

Abstract. Science of research is a set of principles and methods for scientific investigation into technology of research, engineering of research and management of research to improve research and research decision making. This article looks at the fundamentals of Science of research and presents a set of scientific principles and methods though answering the questions such as What is research? How can do research? How can manage research? How can automate a research? How can engineer a research? And etc. This article also explores technology of research, engineering of research, system of research and management of research as a part of science of research. The approaches in science of research will benefit all aspects of science, engineering, technology, system and management.

1 Introduction

Science of research (research science) is not new, because science and technology have been developed dramatically in the past few hundred years. Scientific inquiry underpins the science of research during that time. Research methodologies have become a discipline in order to train higher degree students in the past few decades. Many universities have offered Research methodology as a course or subject for undergraduate or postgraduate students.

Science of research has been drawn some attention in some research fields including Sport and Tourism (Harris, 2006), education (Carlson & Marshall, 2009), social psychology (Kassin, Fein, & Markus, 2011), families (Olson, 2011) and molecular and cellular cognition (MCC) (Silva & Bickle, 2009). For example, Silva (2007) proposes the principles underlying the discovery of cognitive and other biological mechanisms as a part of the science of research. He proposes a new general framework for science of research and applies it to the search for molecular mechanisms of cognitive functions (Silva & Bickle, 2009). However, research has not been considered as a science, that is, science of research has been not considered as a member of science realm, because en.wikipedia.org has no items of either "Science of research" or "research science"(retrieved on 18 July 2017).

Science of research can be defined as a set of principles and methods for scientific investigation into technology of research, engineering of research and management of research to improve research and research decision making. It mainly addresses the following questions. What is research? How can do research? How can manage research? How can automate a research? How can engineer a research? And etc. The approaches in science of research will benefit all aspects of science, engineering, technology, system and management.

It should be noted that the author motivated science of research based on his predilection on research methodology for three decades. Just as that F Taylor developed science of management (scientific management) from 1908 to 1911 and it later underpins science of business. Science of research should become a member of science realm. What F Taylor dreamed in 1908 is similar to what the author has dreamed about science of research.

The author believes that this is a topic for a series of books or research papers, if we can build a school of business based on science of management, or science of business, why cannot we build a school of

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