

Public Economic Efficiency and Case-Based Reasoning: A Theoretical Framework to Police Performance

Authors : Javier Parra-Domínguez, Juan Manuel Corchado

Abstract : At present, public efficiency is a concept that intends to maximize return on public investment focus on minimizing the use of resources and maximizing the outputs. The concept takes into account statistical criteria drawn up according to techniques such as DEA (Data Envelopment Analysis). The purpose of the current work is to consider, more precisely, the theoretical application of CBR (Case-Based Reasoning) from economics and computer science, as a preliminary step to improving the efficiency of law enforcement agencies (public sector). With the aim of increasing the efficiency of the public sector, we have entered into a phase whose main objective is the implementation of new technologies. Our main conclusion is that the application of computer techniques, such as CBR, has become key to the efficiency of the public sector, which continues to require economic valuation based on methodologies such as DEA. As a theoretical result and conclusion, the incorporation of CBR systems will reduce the number of inputs and increase, theoretically, the number of outputs generated based on previous computer knowledge.

Keywords : case-based reasoning, knowledge, police, public efficiency

Conference Title : ICPFPEPP 2020 : International Conference on Public Finance, Public Economics and Public Policy

Conference Location : Paris, France

Conference Dates : September 17-18, 2020