

Review Article

Applications of Quantum Probability Amplitude in Decision Support Systems

Shahram Payandeh 

Networked Robotics and Sensing Laboratory, School of Engineering Science, Simon Fraser University, Burnaby, British Columbia V3A 1S6, Canada

Correspondence should be addressed to Shahram Payandeh; payandeh@sfu.ca

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Establishing various frameworks for managing uncertainties in decision-making systems have been posing many fundamental challenges to the system design engineers. Quantum paradigms has been introduced to the area of decision and control communities as a possible supporting platforms in such uncertainty management. This paper presents an overview of how a quantum framework and, in particular, probability amplitude has been proposed and utilized in the literature to complement two classical probabilistic decision-making approaches. The first such framework is based in the Bayesian network, and the second is based on an element of Dempster-Shafer (DS) theory using the definition of mass function. The paper first presents a summary of these classical approaches, followed by a review of their preliminary enhancements using the quantum model framework. Particular attention was given on how the notion of probability amplitude is utilized in such extensions to the quantum-like framework. Numerical walk-through examples are combined with the presentation of each method in order to better demonstrate the extensions of the proposed frameworks. The main objective is to better define and develop a common platform in order to further explore and experiment with this alternative framework as a part of a decision support system.

1. Introduction

Design of autonomous systems or systems which can assist or collaborate with people in a semiautonomous framework has been gaining considerable attention for the past decades [1, 2]. For the majority of these systems, a typical system architecture involves a layer of sequenced sensing and perception, followed by a layer of decision-making or actuations. Sensing and sequences of sensing in general gives noisy measurement of information from the environment which can then be used and be interpreted by the next stages of decision-making [3, 4].

In order to construct a basis of such decision-making frameworks in presence of uncertainties, two different sets of axioms were proposed in the area of probability theory. One formulation is based on Kolmogorov axioms (Kolmogorov, 1933/1950) and the other is based on von Neumann axioms (von Neumann, 1932/1955). Former organized the principles underlying the classical probabilistic applications, and

the other was based on the probabilistic interpretation of laws underlying quantum mechanics. At the conceptual level, a key difference is that the classical probability theory relies on a set-theoretic representation, whereas quantum theory used a vector space representation. There have been a number of interpretations of quantum mechanics in the context of classical decision-making. In this paper, we present an overview of two classical frameworks which have been used in the context of decision-making and presents how the quantum model and, in particular, quantum probability amplitudes have been used within these two classical models.

1.1. Background Review. There exist a number of methodologies proposed in the literature for decision-making under uncertainties. In this section, we highlight a number of these methods. Expected utility theory (EUT) is a traditional method of decision-making that takes uncertainty into

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