

MODELING UNCERTAINTY KNOWLEDGE OF THE TOPOLOGICAL METHODS

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Abstract. Most real- life situations have uncertain information; the world needs to be modeled every time to confront epidemics, such as the COVID-19. Measuring approximation accuracy is an important goal for re-searchers in many theoretical and applied areas. Thus, the aim of this study is to take advantage of the rough set; rough set theory can be considered as a topological method, which achieves a balance in digital information, so as to reduce superfluous information due to the denseness of digital information. This has been clarified by the application in this study. The results are obtained by using the MATLAB program.

1. Introduction

The topology was used in the fourth decade of the nineteenth century and the greatest evidence of the importance of topology [1]. The Nobel Prize in Physics in 2016 was awarded because of topological uses in the theory of the transformation of the material in addition to international schools in Germany and America are using topological applications in science and engineering. Information on the surrounding world is imprecise, incomplete or uncertain [[1], [2]]. Information granulation is very important for the solution of human, problems and therefore has a very significant impact on the design and implementation of intelligent systems. In information theory, one approach to supporting information reasoning and analysis based on varying levels of conceptualization is the emerging discipline of granular computing, a term coined together by [9]. To order to take a decision on incompleteness, or uncertainty, new mathematical methods were used for applications [[3], [5], [7]], Pawlak presented the notion of rough sets up to 1982 [[10], [11]] as a formal theory deriving from fundamental research into the logical properties of information systems. It is clear that there is another set, namely fuzzy theory [15], where this theory and the rough set theory complement classical sets generalizations. Where 21st century's main significant factor. Throughout our lives, information technology is simply like all the expertise in this is available [4] as a method

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