CHAPTER 10

CONCLUSION

This chapter provides the overall conclusion of the entire research work carried throughout the thesis and also the scope for further research as an extension to the current work as well. There is also a part of this chapter contributing to highlight the limitations of the current research work.

10.1 Conclusion.

The collaborative work of all the chapters including 3, 4, 5, 6, 7, 8 and the brief discussed in the current chapter gives the following conclusion of the research.

- The cohomology structures Kunneth theorem gives a clear and a broad aspect of the structure that is followed by the graph so formed.

- The Kunneth theorem which is localized over the space forms a similar kind of association among the elements of the graph that are also forming the vertices of the structure.

- The formation of the structure that is further seen over the cohomology space is thereby coined over a graphical termed named as the Kunneth graphs.

- These Kunneth graphs are further seen to retain the properties of the Kunneth theorem so as to describe association over the components of the graph with the reference to the product space and the individual vertices in the form of elements of the Kunneth graphs.

- The structures that are viewed over the real plane are expected to achieve a greater sense of application to study association among the other elements that are also a part of the real plane.
Association of the various sets of elements or locations on the geographical plane is expected to retain the properties of association in accordance to the Kunneth graph.

Further this part of the study is related to analyze the portions of the geographical locations that are a part of the map as traversed by the hurricane over a plane that also retains the Kunneth graph and its properties among the elements acting as the vertices of the graph.

This process can be developed in order to achieve a greater sense of efficiency to relate the vertices over the so formed Kunneth graphs with the scope of applying this map to study other natural perils that are observed over the large structure.

10.2 Scope for Further Research.

Depending on the current findings of the research work and the relation of the various theories that contribute to the actual theory of the thesis, there can be estimated a link to the further theories that are considered to possess a further scope of research to manifest the ideology towards a list of application and also interlink the concept with the other domains of studies to produce some useful results. Some of the extensions to the current research that hold scope of further development are listed ahead.

The graphs that are formed over the conditions of the cohomology space and further parameterized over the real plane as well may be characterized over the concepts of the lattice structures that are visualized for other geographical locations in order to achieve association among the locations over that specific area.

These patterns that are formed over the geographical structures may be further exposed to the computation of the graphical forms in order to study spatial graphs for the specific locations for the formation of the specific lattice structures.
These Kunneth graphs that are formed over the cohomology spaces and also the real planes are further expected to analyze the same over the localization techniques over the other mathematical spaces to understand the localization techniques over it.

The kind of Kunneth graphs that are formed over the other mathematical spaces might give further scope of application over being used for many other functions that might be exploited with further analysis.

The approach that is used to study the hurricane path and the other characteristics may be used to study other perils forming similar patterns like the thunderstorms, earthquake waves, monsoon winds and the other natural calamities that are caused over a path traversed over a set of locations.

This outcomes that are a part of the research over the similar theory of studying the catastrophe paths may be also used in the study of estimating the losses due to the effect of these perils.

There is further scope of application of the involvement of the Kunneth graph in the study of maps that are affected by the natural perils also to be used by the insurance as well as the reinsurance companies. The perils include natural as well as the man driven perils.

10.3 Limitations of the Research Work.

The current work on the concerned topic restricts its application with a set of limitations that are restricting itself from being more efficient to the other approaches and patterns of study of the hurricane forms.

The cohomology localization of the Kunneth graph fails to be tested for many other mathematical spaces in order to achieve a greater sense of application.
The graphical structures that are formed due to the association of the Kunneth elements over the plane lack the interference of the properties of the other graphical forms over the same plane.

The theory lacks the provision of the influential literature that motivates the current state of the graphical forms over the algebraic properties.

The study of hurricanes with the approach of the Kunneth theory and the further developed Kunneth graphs may be manifested to a robust form with reference to the number of vertices and the edge formed to be applied ahead.

The efficiency of the current study related to the hurricane path and its other characteristics may be understood with the use of real time data rather than the past historical data.