

Research on GIS technology and its application in telecommunications network infrastructure management.

Nguyen Truong Son

Abstract: This topic aims to analyze the important role of Information Technology and Geographical Information System (GIS) in enhancing the efficiency of telecommunications network infrastructure management. The practical context raises the need to optimize management processes based on geographic data, therefore the main objective is to develop a specialized GIS system to support this process. The research method applies a combination of theory and experimentation to ensure synchronization and effectiveness in application. The expected results not only improve infrastructure management productivity but also contribute to promoting the development of geographic information technology in the telecommunications field.

Keywords: GIS, Telecommunications, Infrastructure Management, Information Technology, Geographic Data Engineering