BUS 340 introductions to information systems

Student’s Name

Institution

Date

Discussion 1: Article Title: Innovative Design of Marine Resources Database System Based on Fuzzy Cluster Analysis

The article “Innovative Design of Marine Resources Database System Based on Fuzzy Cluster Analysis” authored by Yuanqiang Lian in 2018, discusses the essentials of a database in system management. It analyses how marine capture has yielded over the years. It analyses the application of information system in fishing to ensure production. The article relates to the application of system farming. In most places across the world, farms have been digitalized and many firms applied the use of a system to ensure the production of produce. This directly to the article, this discusses the use of ICT in enhancing fishing production (Lian, 2018).

The purpose of the article, analyze the processing, functioning, and data processing techniques. It is meant to understand the data functioning techniques, which are applied in the data management for any organization. It is also meant to present the functions and the importance of data to an organization. And more important it was derived to indicate how a system can be implemented in the fishing industry. And based on the article, it is established that it can be applied in monitoring and evaluation, tracking, and production in the fishing industry. It shows essential of information system and its application in various industries.

Professional Assignment 1

Recently, technology has revolutionized every aspect of the economy. Farming has also been revolutionized through the application of information system in farming technology. Some farmers have installed GPS guide system on their tractors so that farmers can be able to control and oversee the progress on their farms using iPads (Yan, 2018). The availability of this system has helped farmers to reduce their operating cost. This is the fact that farmers can efficiently monitor the operation of its equipment and therefore, avoids the misuse, which has been common in the past. The information technology has also provided the best way, which farmers can utilize to gather process and analyze data for effective use in the provision of farming. This, therefore, helps farmers to increase productivity from their farms. The data gathered can be used for prediction plan and therefore, farmers can increase their yield. Though it might sound worthy, the main question is whether it is worth investing by farmers.

Farmers can use global positioning and various technological advancement get the best strategies to use during planting season. Through the use of global position, technology monitors the operation at their farmers through iPads and tablets. This brings efficient management in farmer hence profitability. The global position technology is also applied during harvesting season to ensure that the harvest is properly monitored to avoid encountering unnecessary loses. In some cases, the technology is used in the irrigation system (Govind & Tewari, 2017). It is applied to control the in and outflow of water from the paddy system. The sensor is placed inside the water to detect the level of water within a paddy and then communicate to the system to either trigger the inflow or stop the inflow of water into the paddy.

The precision data system provides information regarding pest, and other factors, which can affect crops. It is also noted that it helps farmers to efficient planting with good spacing and therefore, it increases the rate of production. When crops are properly spaced during planting, space would be efficiently utilized and this could result in higher production from the farm. The application of technology is important in the farming sector. Its application is likely to improve production hence food security and high profits for farmers.

# Bibliography

Govind, N., & Tewari, R. (2017). *IGMIS – a computer-aided information system on Indian Gondwana megaspores.* New York: Current Science Association.

Lian, Y. (2018). Innovative Design of Marine Resources Database System Based on Fuzzy Cluster Analysis. *Journal of Coastal Research*, 662-667.

Yan, L. (2018). Design of Two-dimensional Visualization System for Embedded Marine Environment Spatial Data. *Journal of Coastal Research* , 735-740.