Artificial Intelligence Techniques in Water Resources Management and Climate Change (Oral)

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ABSTRACT

This paper reviews the latest information on the assessment This contributed volume details how Artificial Intelligence (AI) and Techniques in Water Resources Management and Climate Change can effectively improve the prediction of groundwater quality and support decision-making in arid and semi-arid regions. Water Resources Management and Climate Change, including remote sensing and geographic information systems (GIS), play a crucial role in assessing and monitoring groundwater quality. Remote sensing data, such as satellite imagery, can provide valuable information on land cover, vegetation indices, and water quality parameters. GIS tools enable the spatial analysis and visualization of groundwater quality data.

AI and Water Resources Management and Climate Change -based methods support effective water resource management by identifying suitable areas for artificial groundwater recharge (AGR) and assessing the impact of pollution on water resources. These techniques help formulate conservation policies and sustainable water management strategies.

The application of AI and Water Resources Management and Climate Change in groundwater quality prediction contributes to the sustainability of water resources. Identifying pollution sources, assessing water quality, and guiding decision-making processes support preserving and managing water resources in arid and semi-arid regions

Keywords: Artificial Intelligence; Water Resources Management and Climate Change.