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The system provides tools for the exploration of spatially-referenced databases relevant for irrigation and the evaluation of irrigation scenarios under different soil, climatic and management conditions. The irrigation water management system makes use of ArcView GIS and the Avenue programming language for customization of GIS applications and design of new tools for modeling irrigation water requirements and identifying of areas with water deficit.

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 Geographic Information Systems (GIS) are an effective tool for storing, managing, and displaying spatial data often encountered in water resources management. The application of GIS in water resources is constantly on the rise. In order to stress the importance of GIS in water resources management, applications related to this area are addressed and evaluated for efficient future research and development.

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The GIS-based water management model was developed for the scheduling daily irrigation water deliveries and regular monitoring of irrigation delivery performance. The “Scheduling” program computes the right amount of irrigation deliveries based on crop water requirements.

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Conglomeration of GIS helps in precise management of water for irrigation and producing more crops per drop of water. Keywords—GIS, Irrigation water management, spatially distributed database,...

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