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Automating farms irrigation in Saudi Arabia

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This paper presents a large-scale project under implementation in the Eastern Province of Saudi Arabia where a conventional manual irrigation system of almost 24,000 farms has been automated and interlinked with a global SCADA system for the purpose of using scarce water resources more efficiently, and to utilize technology to support agricultural development. The paper explains the approach for automating this huge irrigation network and the implemented control and SCADA systems. It, then, highlights implementation findings and avenues of study and research.

Biography

Sami A Alhasan did his B.S. Degree in Systems Engineering from King Fahd University of Petroleum and Minerals, Saudi Arabia in 1990. Then in 1994 he got his M.S. Degree in Electrical Engineering from Georgia Institute of Technology, USA. Later in 1999 he got his Ph.D. in Electrical Engineering from Georgia Institute of Technology, USA. Topic of thesis is "Intelligent Approaches to Mission Planning and Control of Autonomous Vehicles." Currently he works as Head of Strategic Partnership Program between Technical Vocational Training Corporation (TVTC). Vice Chairman of GE Technical Academy – Saudi Arabia.

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