

# **REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM**

**IBM – LITERATURE SURVEY**

## **UNDER THE GUIDANCE OF**

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## **RVS COLLEGE OF ENGINEERING AND TECHNOLOGY**



**DEPARTMENT OF  
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TITLE	AUTHOR	YEAR	PROJECT DESCRIPTION
Interoperability in Internet of Things: Taxonomies and Open Challenges	Mahda Noura, Mohhammed Antiquzzaman, Martin Gaedke	2018	<p>Improving interoperability in IoT is fundamental for the success of IOT many different proposals have focussed on this crucial issue. The proposals are diverse and promote different approaches. This article takes these works into account and presents a comprehensive over-view of the topic. By doing this, the taxonomy of IOT interoperability was identified. Furthermore, we studied and classified the related strategies for handling specific types of interoperability. According to the different interoperability types and interoperability handling approaches, a comprehensive survey on the recent state-of-the-art research has been presented. Finally, open research issues, challenges and recommended possible future research directions are outlined</p>

<p>Multivariate statistical techniques for the evaluation of groundwater quality of Amaravathi River Basin: South India</p>	<p>K.Loganathan&amp; A.Jafar Ahamed</p>	<p>2019</p>	<p>An IOT system was developed to monitor river Krishna in the time.The IOT system was used to collect the data from identified stations for different water quality parameters such as pH,turbidity,DO,BOD,N3, temperature and conductivity to genetare a data set that was used to monitor the quality of water.The collected data were successfully utilized to assess the water quality of river Krishna using one-way ANOVA which analyze a particular parameter and predict the quality based on value obtained.Two-Way ANOVA was used to do analysis of two parameters are single entity as well as a combination of two parameters. The results showed that one-Way ANOVA was best suited for training the IOT system.</p>
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<p>An Internet of Things-based model for smart water management</p>	<p>Tomas Roble1,Ramon Alcarria,Diego martin,Augusto Morales</p>	<p>2014</p>	<p>Typical scenarios for water management simply new operational models for system deployment in many places,ranging from cities to natural environments or rural regions.These systems can be controlled by control applications,which use standard protocols and interfaces,providing easy,uniform and universal access to all the subsystems through the set of component of the Control Layer.</p>
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Industrial Internet of Things:Challenges, Opportunities and Direction	Emiliano. Sisinni, Abusayed. Saifullad. SongHan, Ulf Jennehag and Mikad Gilund	2018	This paper presented an overview of the emerging IIoT solutions. What is proposed as a revolution for the consumer market can be another step of the evolving industrial communications world. Several technologies are involved and terms IoT,IIoT and Industry 4.0 are often misused. In this paper, we have provided systematic overview of IIoT, focusing on definition of its architecture and describing the protocol ecosystem which is emerging
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