

A Systematic Literature Review on IoT-based Irrigation

Nazma Tara
Department of Computer Science
National University, Bangladesh
nazmatara2000@gmail.com

Khondakar Shahid Hyder
Department of Computer Science
National University, Bangladesh
shahidhyder@gmail.com

Selina Sharmin
Department of Computer Science and Engineering
Jagannath University, Bangladesh
selina@cse.jnu.ac.bd

ABSTRACT

Keywords

IoT, IoT in Irrigation, Smart Irrigation, Wireless Sensor Network, IoT Sensor, smart Agriculture, IoT platform, AgIoT.

1. INTRODUCTION

problem identification,
problem justification,
background,
existing analysis ,
objective,
research gap,
contribution or research plan,
structure of the paper.
Clear message on : Why, who, how, when, which, what will be
outcome/ implementation

2. BACKGROUND STUDIES

- 2.1 Internet of Things (IoT)**
- 2.2 IoT in agriculture**
- 2.3 IoT policy in Bangladesh**
- 2.4 Sensor Devices**
- 2.5 IoT platform**

3. STUDY METHODOLOGY

- 3.1 Formulation of Research Questions**
- 3.2 Search Strategy**
- 3.3 Extracting information**

4. DATA ANALYSIS

- 4.1 Different approaches for identifying problems in IoT-based irrigation**
- 4.2 Countries in which IoT-based irrigation is being used**
- 4.3 Issues in irrigation**
- 4.4 Different irrigation types**
- 4.5 Sensors and boards are used in IoT-based irrigation**
- 4.6 Wireless communication technologies/protocols are used in IoT-based irrigation**
- 4.7 IoT platforms are used in IoT-based irrigation**

5. DISCUSSION

- 5.1 Main Findings**
- 5.2 Research Implications**
- 5.3 Study Limitations and Future Scope**

6. CONCLUSIONS

7. REFERENCES