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SUSTAINABLE SOCIETY: A NEW BEGINNING

Dr. Shahana A. M.  
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# SUSTAINABLE SOCIETY: A NEW BEGINNING



Dr. Shahana A. M.  
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&

**Soudha Nalina Kumar**

Principal, Amirtham College of Education Kancheepuam.

---

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Innovation is the key to a more prosperous future. "Sustainable innovations" is a term that is regularly used in marketing and sales. These phrases are frequently used to describe positive qualities. The information about viable sustainable technologies and resources has been gathered by Sustainable Society. There is little question that when our generation's brilliant minds get together, we will be able to develop even more sustainable technology and solutions. Community leaders, corporations, and individuals can make a difference when they work together. The world's future does not have to be bleak; it can be bright. Sustainable Society invites everyone to work together because our future is at stake.

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## CHAPTER - 1

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# ADAPTIVE CONTROLLER DESIGN FOR NEONATAL DIABETES MELLITUS

---

**Anchana P Belmon**

*Rajadhani Institute of Engineering and Technology, India*

**Hymlin Rose S.G**

*R.M.D Engineering College, India*

### **ABSTRACT**

*The rare disorder with temporary or permanent transients leading to hyperglycemic conditions at the first 6 months of life are considered to be Neonatal diabetes Mellitus. Genetic disorders are also the main characteristics of this disorder .So an adaptive controller is needed to control the level of glucose maintaining the insulin level of the body. The adaptive control is based on the adaptivity condition with a feedback.*

**Keywords:** *Adaptive Controller, Neonatal, Diabetes, Adaptivity*

### **INTRODUCTION**

A rare variety of diabetes that occurs in the new born babies within 6 months is known as Neonatal diabetes mellitus. The main cause for the increase in blood glucose levels is the less energy in cells to produce insulin at the infant stage. Also the cause and effect of the diabetes in newborns are under diagnosed in newborns with an increased risk of morbidity conditions. If any type of transient occurs then screening and management should be done. The main aim is





## The Categorization of Development Boards to Implement the Embedded Systems and Internet of Things With Cloud Database for Volcano Monitoring Drones

Aswin Kumer S. V. (Koneru Lakshmaiah Education Foundation, India), Ayeesha Nasreen M. (RMD Engineering College, India), Jayalakshmi S. (QIS College of Engineering and Technology, India), Venkatasubramanian K. (QIS College of Engineering and Technology, India) and Lakshmi Bharath Gogu (Srinivasa Institute of Technology and Science, India)

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### Abstract

Instead of sending human beings into volcanoes, drone-bot is used to measure the live lava temperature, and it alerts the ground station to protect people near the surroundings. The thermocouple is used as a temperature sensor. It can measure a wide range of higher temperatures, and it can be interfaced with the TTGo T-Cal development board to process and send the temperature data to the ground station through GSM as short message service (SMS). Also the ESP-32 CAM is interfaced with that development board to capture the snapshot of the mountain if the temperature is high and the same snap is shared to the ground station through Wi-Fi. The GPS module is also interfaced with the development board to know the location of the volcano.



**Computational Vision and Bio-Inspired Computing** pp 431–448 | [Cite as](#)

## Energy Saving Mechanism Using Extensive Game Theory Technique in Wireless Body Area Network (ES-EG)

M. Ayesha Nasreen & Selvi Ravindran

Conference paper | [First Online: 31 March 2022](#)

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Abstract

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The Convergence of Artificial Intelligence and Blockchain Technologies, pp. 221-241 (2022)

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## Chapter 11: Blockchain-Based Internet of Things (IoT) Security for Data Sharing in Smart City Environment

Thirunavukarasu Velayudham Padmavathy, Maanuguru Nagaraju Vimal Kumar, Shakunthala Masi, Chandrasekaran Shobana Nageswari, ... See all authors

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Blockchain (BC) gained significant interest because of its undeniable nature and related advantages of security and privacy. BC has the power to solve drawback of Internet of Things (IoT) like data protection and privacy. Due to the IoT network's distributive nature and massive scale, the privacy and security of IoT have a major challenge. Blockchain has huge attention to improving audibility, IoT anonymity, security, and reliability in which billions of recently used devices are linked with internet to offer personalized services and everyday life. The most prominent issue is the scalability approach and is limited to high resource devices and must be within the wireless range of every IoT device. BC mechanism plays a vital role in safeguarding IoT-oriented applications by becoming part of a security mosaic, in the context of BC context realizes secure network over untrusted parties which is desirable in IoT with several heterogeneous devices. The BC technology has various

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**Author(s):** [Aishwarya Nagasubramanian](#)<sup>1</sup>; [Chandrasekaran Bennila Thangammal](#)<sup>2</sup>; [Vasanthia Pragasam Gladis Pushparathi](#)<sup>3</sup>

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A handwritten signature in black ink, appearing to read "Senthil".

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in gratitude for the outstanding contribution to our conference and  
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