


Chapter 10


The Future of IoT in Business and Consumer Environments

Sucheta Kanchi

 <http://orcid.org/0000-0001-7489-8616>


Bharati Vidyapeeth, Pune, India

T. C. Manjunath

 <http://orcid.org/0000-0003-2545-9160>


*Rajarajeswari College of Engineering,
India*

P. Selvakumar

 <http://orcid.org/0000-0002-3650-4548>


*Department of Science and Humanities,
Nehru Institute of Technology,
Coimbatore, India*

Subramaniam Iyer

 <http://orcid.org/0000-0002-3843-9399>

*Datta Meghe Institute of Management
Studies, India*

Cyril Crasto

 <http://orcid.org/0000-0001-8703-2010>

Sri Balaji University, Pune, India

Ruchika Paidalwar

*Datta Meghe Institute of Management
Studies, India*

ABSTRACT

This paradigm is rapidly revolutionizing the way businesses operate, governments function, and consumers engage with their environments. consumer environments, emphasizing the wide-ranging impact of this technology. Defining the Internet of Things, from wearable fitness trackers to smart vehicles, and from agricultural sensors to connected healthcare devices. The key characteristics that define IoT include connectivity, automation, data exchange, and smart decision-making. to make decisions without human intervention. Over time, IoT systems learn from the data they collect, resulting in more intelligent and efficient operations. Thus, IoT is not just about connecting devices but also about enabling machines to make decisions and improve their functionality autonomously. Actuators: Actuators are

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responsible for carrying out the actions based on the data and decisions made by the IoT system(Adolphs & Winkelmann, 2010). For example, an actuator might turn on a heating system in response to a drop in temperature detected by a sensor.

INTRODUCTION TO IOT: DEFINING THE TECHNOLOGY AND ITS APPLICATIONS

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