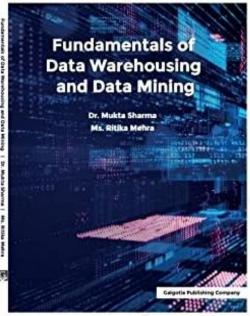


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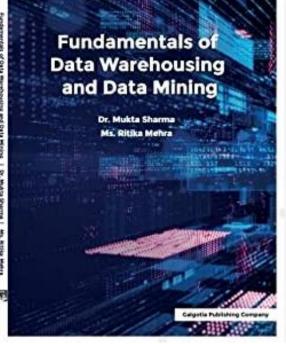




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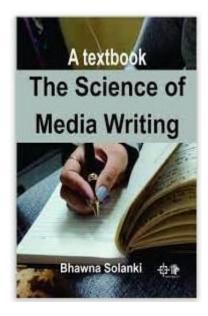
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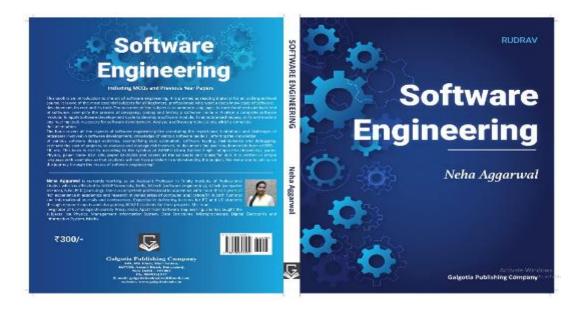


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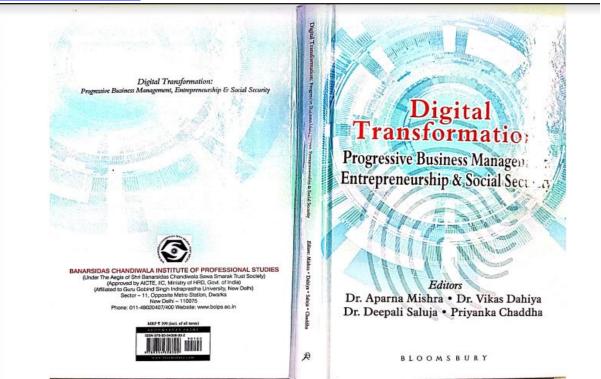


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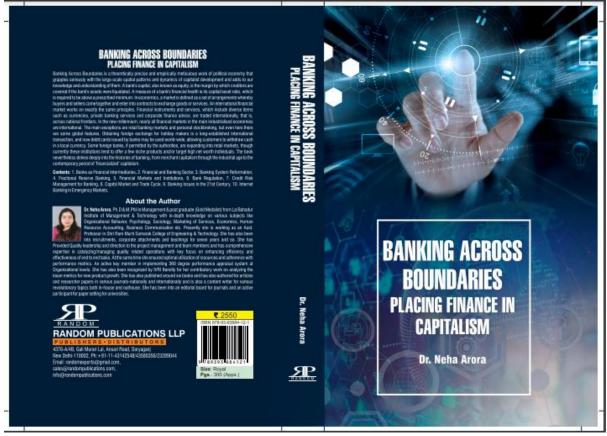
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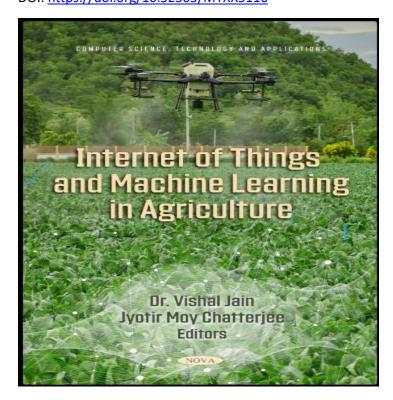


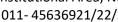
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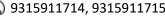
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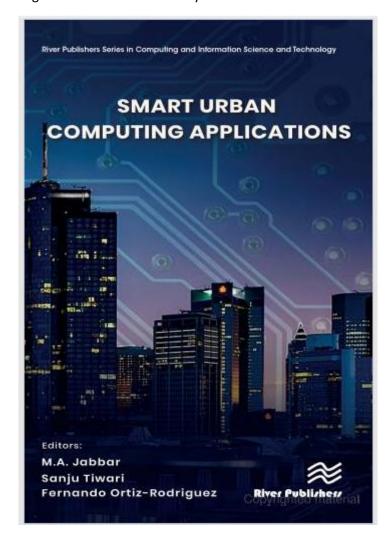
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### 9. Dr. Mukta Sharma

Artificial Intelligence and IoT for Smart City





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### Artificial Intelligence and IoT for Smart Cities

### Mukta Sharma

Associate Professor, HOD, Department of CS & IT, TIPS, India Email: m.mukta19@gmail.com

Abstract

The benefits and enchantment of living in the 21st century are numerous. There are multiple technological pillars involved in building sustainable smart cities. This chapter will shed light on artificial intelligence (AI) and the Internet of Things (IoT) primarily. This offers new opportunities for collaboration in areas such as transportation, healthcare, industry, and the creation digital infrastructure. Visualizing that now, no one gets stuck in the traffic congestion, while going to the office or for shopping. Every day, your docreges complete details about your daily sleep, heart rate, pulse rate, daily footsteps, calories burned, intake of calories, etc. Envision that seating in a different part of the world or just after leaving from your office and before reaching home, you want to make the room temperature apt for which you want to switch on your air conditiones of the most of the world or world insert the conditions of the surface of the house is at your fingertips. AI and the Internet of Things (IoT) are two technologies that have the potential to transform cities into sustainable smart cities. This proposes new opportunities for collaboration in the areas of transportation, healthcare, industry, and the development of digital infrastructure.

in the areas of transportation, healthcare, industry, and the development of digital infrastructure.

The chapter will commence with a brief introduction about artificial intelligence, Al history, benefits of AL limitations or challenges of AL, future scope, and solutions proposed by AL. The chapter will also highlight IoT, how IoT has actually made life easier and the devices to stay connected, and other advantages and challenges of AL. In this chapter, the author will discuss smart cities and warious sectors like traffic management, agriculture, healthcare, etc., which have helped the cities get converted into smart cities.

156 Artificial Intelligence and IoT for Smart Cities

### 7.1 Introduction

Al and IoT are two of the most disruptive technologies today, hastening the pace of business innovation. In this chapter, we will look at how the combi-nation of these technologies can help not only with the development of new business models but also with the development of smart cities.

### 7.2 Artificial Intelligence

"It is the machine's ability to imitate human behavior." [28, 29]

"It is the machine's ability to imitate human behavior." [28, 29]

The most basic definition of Artificial Intelligence would be "the intelligence demonstrated by machines" (Wikipedia, 2020). Machine intelligence is referred to as Al. Intelligent machines can improve performance and capabilities by predicting and analyzing [27]. It mimics human cognitive functions, such as problem-solving and learning. The application of artificial intelligence is expanding, and the number of jobs done by machines has almost doubled in recent years. Consider artificial intelligence to be an attempt to replicate or simulate human intelligence in a machine for better understanding. This enables them to complete tasks and make informed decisions based on the instructions and experience they have received. Artificial intelligence is a broad field of computing. It entails the process of creating smart machines and putting them to use in a variety of practical applications, humanization, and/or rational acting [34]. In general, the field of artificial intelligence seeks to advance science and intelligent engineering, with the aim of creating machines with human characteristics. This includes creating machines with a wide range of inspiring human abilities, such as communication, perception, planning, reasoning, the representation of Knowledge, the ability to move and manipulate objects, and the ability to learn. Al uses tools and techniques from a variety of disciplines to solve problems, including probability, mathematics and statistics, philosophy, psychology, symbolic computing, linguistics, search and optimization, perce, [24, 17].

### 7.3 Artificial Intelligence History

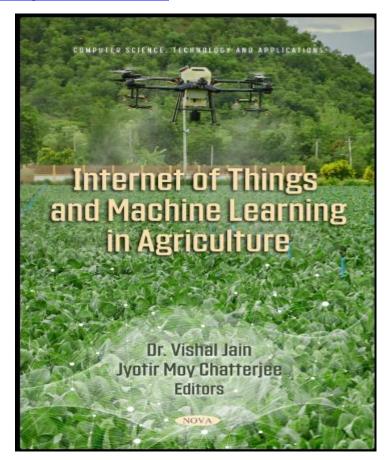
Artificial intelligence (AI) is an old stream, approximately 50+ years old, collection of science, technology, and theories (including statistics, mathematical logic, computer science, probability, and computational neurobiology) designed to imitate human cognitive abilities. Its development began in the middle of World War II and was inseparable from computing, enhancing

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### 10. Ms. Neha Aggarwal

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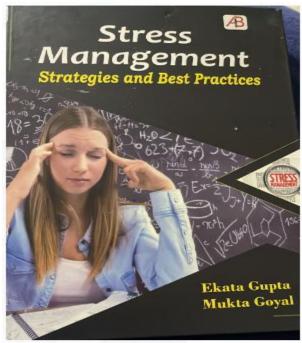
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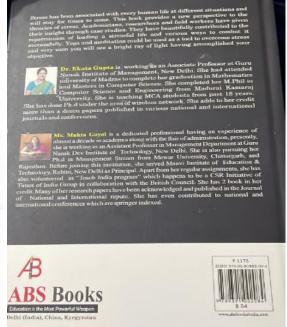
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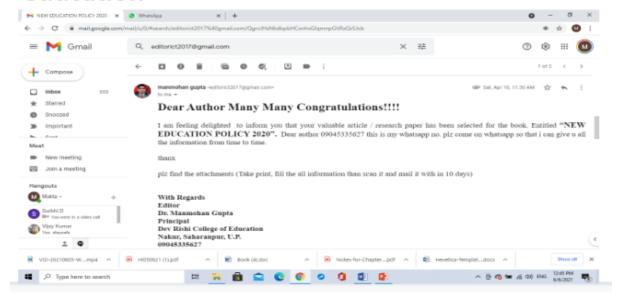






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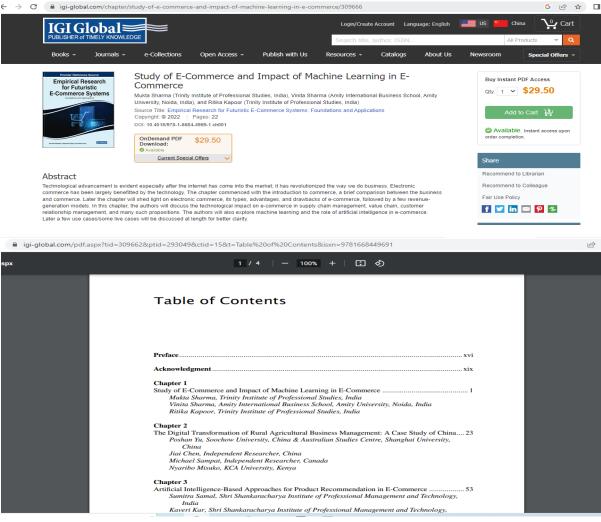




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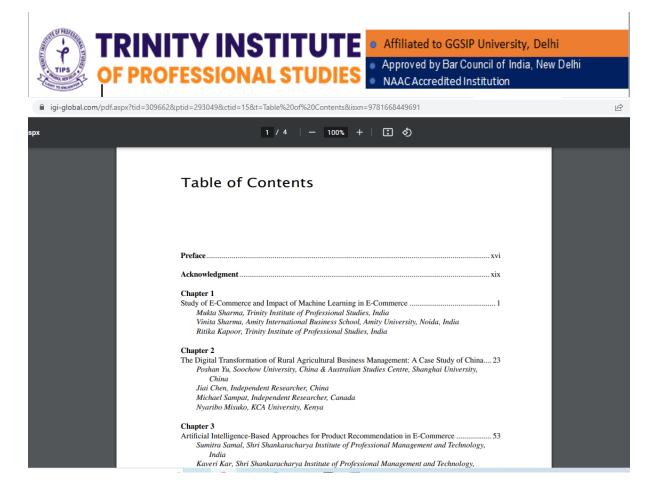
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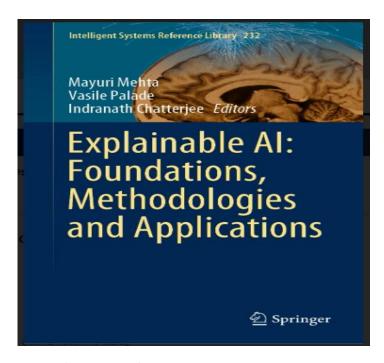




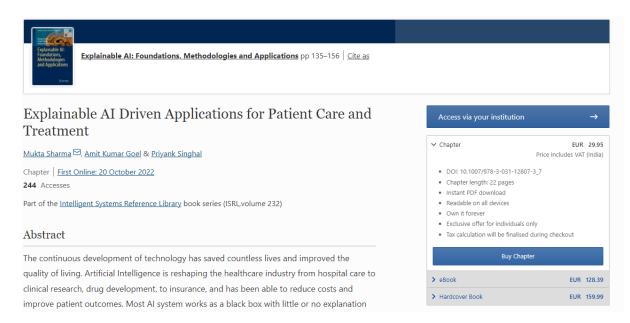




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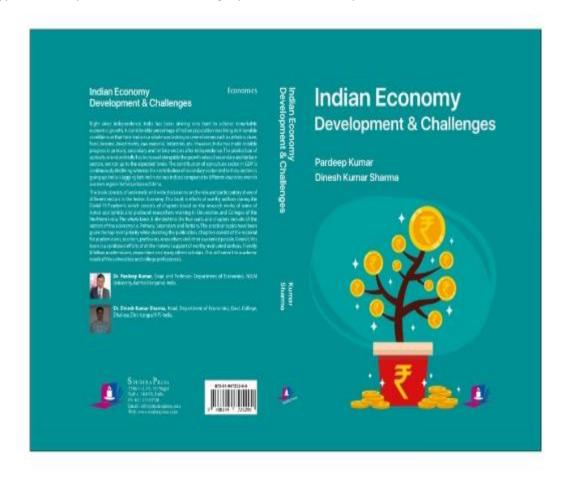


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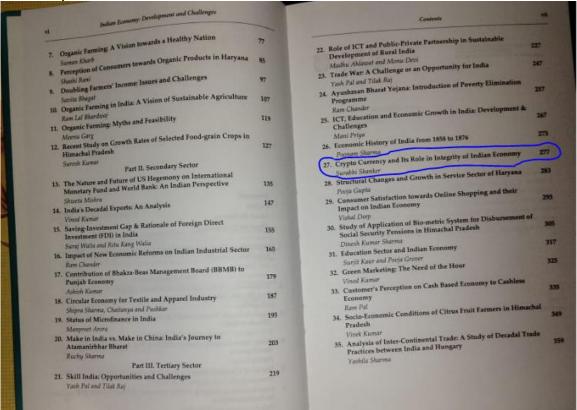
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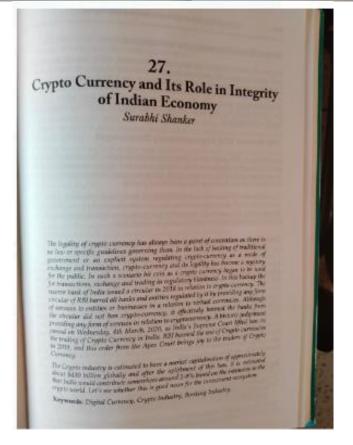
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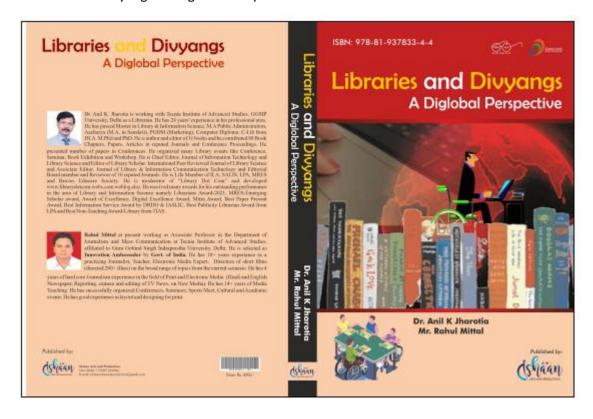
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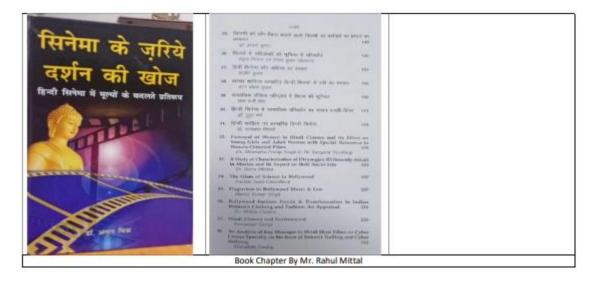
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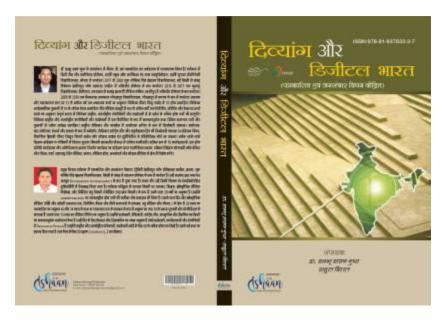
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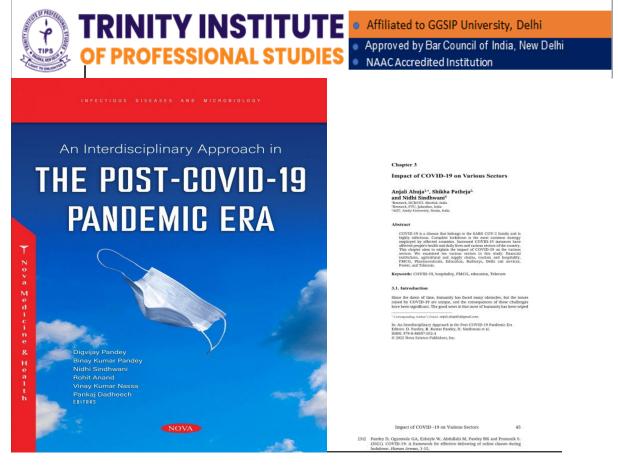
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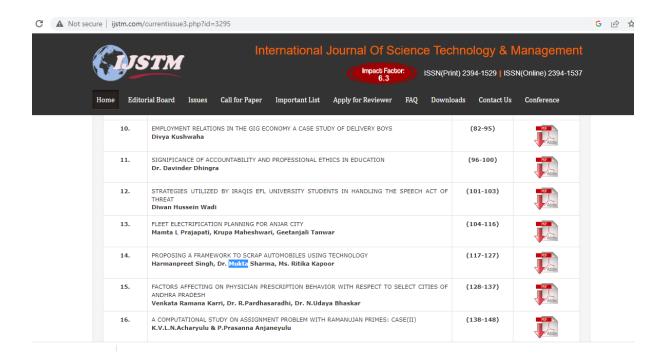
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