Handbook of Research on Smart Technology Applications in the Tourism Industry

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Chapter 7
Internet of Things in Tourism: A Proposal of the Information System for Cappadocia Hot-Air Ballooning

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ABSTRACT

With the revolution of Industry 4.0, the technologies that enter our daily lives are based on smart devices, applications, and platforms with internet connection. A wide range of these technologies collected under one umbrella is known as IoT (internet of things). This chapter evaluates the stages of a touristic travel in smart tourism destinations by considering IoT architecture. The technologies used in these phases and their contributions to the tourism sector and tourists are examined. In the implementation section, an IoT-based information system is proposed for Cappadocia hot air balloon tours. The main purpose of the system is to determine whether the appropriate weather conditions are formed before the hot air balloon flights. The proposed system allows for the automation and evaluation of data already collected using traditional methods. With the implementation of the system; work and time savings can be achieved, and more accurate measurements will make safe flights.

INTRODUCTION

Three major industrial revolutions have emerged in the development of modern industry. Today, the fourth industrial revolution called Industry 4.0 has entered. Industry 4.0 is an ecosystem that links data, people, processes, services, systems (I-scoop, 2018). Industry 4.0 is also referred to as smart industry, smart factory or smart production industry. Smart production systems can be defined as fully integrated and co-operative production systems that respond in real time to meet changing customer needs and changing demands and conditions in factories and supply networks (Zheng, et al., 2018).

In the Industry 4.0 revolution, although production technologies constitute the main focus, it is possible to talk about a series of transformations affecting other interconnected sectors at the digital production

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