Preface

This book is useful to beginners of the Smart City developers and gives them constructive insights to develop their projects. The prototypes can be developed for building Sustainable Smart Cities with an Industry 4.0 perspective. This book covers topics such as data security, cloud computing, energy harvesting, smart grids for power transmission, battery power optimization, and healthcare devices.

Industry 4.0 is the subset of the fourth mechanical revolution that concerns industry. The fourth industrial revolution includes regions which are not regularly named as industry, such as smart cities, for instance.

In spite of the fact that the terms "industry 4.0" and "fourth industrial revolution" are regularly utilized conversely, "industry 4.0" processing plants have machines which are enlarged with remote network and sensors, associated with a framework that can imagine the whole creation line and settle on choices all alone.

Generally, industry 4.0 is the pattern towards computerization and information exchange in assembling innovations and procedures which incorporate cyber-physical systems (CPS), the internet of things (IoT), industrial internet of things (IIOT), distributed computing, cognitive computing, and artificial intelligence.

Industry 4.0 encourages what has been called as a "brilliant processing plant." Inside particular modular structured smart plants, cyber-physical systems screen physical procedures, make a virtual duplicate of the physical world, and settle on decentralized choices.

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