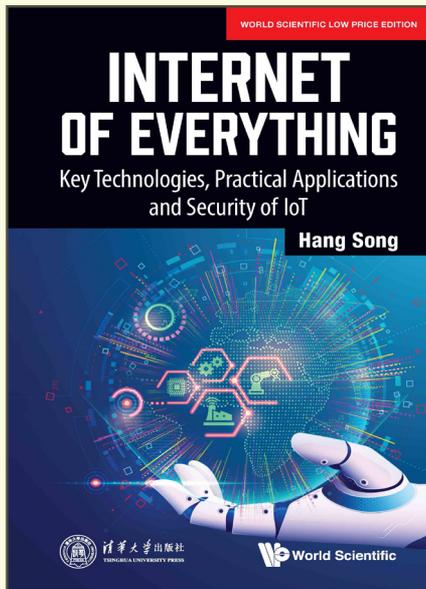


Internet of Everything

Key Technologies, Practical Applications and Security of IoT



By **Hang Song**

(National University of Defence Technology, China)

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ABOUT THE BOOK

This book provides comprehensive coverage on the concepts, frameworks, and underpinning technologies in most aspects of the Internet of Things (IoT), and presents them as the foundation on which more advanced topics, such as 5G and mMTC/M2M, Edge/cloud computing and the modalities of Tactile IoT, Industrial IoT (IIoT)/Industry 4.0, Satellite IoT, and Digital Twins (DT), could be built upon.

A key feature of the book is the chapter that focuses on security & privacy for individuals & IoT/ Industry 4.0 are discussed.

This book is a good reference guide for researchers, developers, integrators and stakeholders working on research in or development of IoT, particularly where open-source software are deployed.

READERSHIP

The book focuses on bringing all IoT related technologies together, so that students, researchers, and practitioners could use this book as a reference guide in the course of their studies and product development process.

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- Chapter 1: What is IoT on Earth
- Chapter 2: Development of Internet of Things
- Chapter 3: Characteristics of Internet of Things
- Chapter 4: Perceptual Technologies Layer of IoT
- Chapter 5: Communication Technologies Layer of IoT
- Chapter 6: Services and Platform Layer of IoT
- Chapter 7: Application Layer of IoT
- Chapter 8: IoT Security
- Chapter 9: Conclusions and Expectations

ABOUT THE AUTHOR

Hang Song, PhD, has worked as a postdoctoral researcher at the National University of Defence Technology, China (NUDT) and as project scientist on an automated driving project in a fortune 500 company. He has also worked as Vice President/Chief engineer in Xingtong IoT Application Technology Research Institute, Tianjin, China.

Dr Song is a special advisor both of the “YUTU Forum” (held by the Henan Provincial Library of China) and of the Shenzhen Internet of Things Industry Association (SZIOT). He has been invited to speak in many conferences as a keynote speaker, and presented session talks internationally.

For 19 years, his research has been devoted to the Internet of Things (IoT), Industrial IoT, V2X, Cloud/Edge Computing, Wireless Sensor Network (WSN), 5G, IoT security and reinforcement learning.



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