

# Enhancing Data-Driven Electronics Through IoT

Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

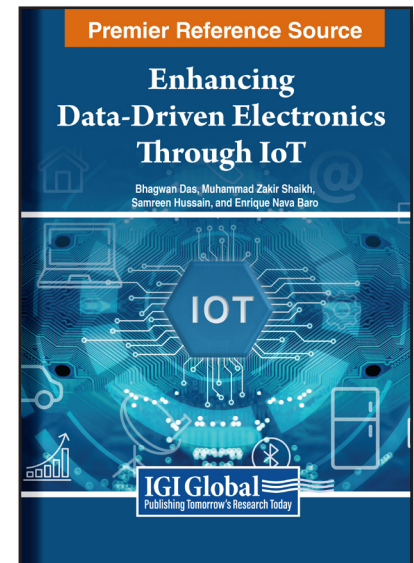
Bhagwan Das (Melbourne Institute of Technology, Australia, Australia, Australia), Muhammad Zakir Shaikh (Mehran University of Engineering & Technology, Pakistan), Samreen Hussain (Dawood University of Engineering and Technology, Pakistan) and Enrique Nava Baro (Universidad de Malaga, Spain)

## Description:

In today's ever-evolving world of electronics engineering and design, professionals face the pressing challenge of effectively integrating the Internet of Things (IoT) technology into electronic devices to enhance their performance and functionality. As the demand for smarter, more connected devices continues to grow, there exists a critical need for comprehensive resources that bridge the gap between theoretical concepts and practical applications of IoT in electronics. Without such guidance, professionals risk falling behind in understanding and harnessing the transformative power of IoT technology.

Enhancing Data-Driven Electronics Through IoT emerges as the definitive solution to this pervasive problem. This groundbreaking book offers scholars a roadmap to navigate the complexities of IoT integration in electronic devices, empowering them to unlock new opportunities for innovation and advancement. Through a meticulous exploration of IoT protocols, communication technologies, and data analytics techniques, this book equips scholars with the knowledge and skills needed to excel in the rapidly evolving field of electronics engineering.

With its diverse range of topics, from IoT security and privacy to real-world case studies and emerging trends, Enhancing Data-Driven Electronics Through IoT provides scholars with a comprehensive understanding of IoT technology and its transformative applications. By offering both theoretical insights and practical guidance, this book serves as a catalyst for academic excellence, enabling scholars to stay at the forefront of IoT-driven electronic design and functionality.



**ISBN:** 9798369354483

**Pages:** 310

**Copyright:** 2025

**Release Date:** October, 2024

**Hardcover:** \$385.00

**E-Book:** \$385.00

**Hardcover +  
E-Book:** \$465.00

## Topics Covered:

- 5G Connectivity
- Application of Machine Learning Algorithms
- Communication Technologies
- Data Analytics
- Data Encryption
- Device-to-Cloud Communication
- Device-to-Device Communication
- Ethical Considerations
- IoT Device Design
- IoT Protocols

**Subject:** Computer Science & Information Technology

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level (Research Recommended)

**Research Suitable for:** Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

### Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: [www.igi-global.com](http://www.igi-global.com)

Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA