

Contents

Preface — V

Editors' brief bio — XI

List of contributors — XIII

Himani Mittal

Chapter 1

**Blockchain technology: architecture, consensus protocol
and applications — 1**

Sunita Ahlawat, Abhishek Tripathi

Chapter 2

Blockchain: implications for accounting and audit practice — 9

Hemant Kumar Saini, Kusum Lata Jain, Kamal Kant Hiran, Amit Bhati

Chapter 3

Paradigms to make smart city using blockchain — 21

Vineet Chouhan, Raj Bahadur Sharma, M. L. Vasita, Shubham Goswami

Chapter 4

**Measuring barriers in adoption of blockchain in supply chain management
system — 37**

Vineet Chouhan, Shubham Goswami, Manish Dadhich, Pranav Saraswat,
Pushpkant Shakdwipee

Chapter 5

**Emerging opportunities for the application of blockchain for energy
efficiency — 63**

Gourav Surana, Shurveer S. Bhanawat, Vineet Chouhan

Chapter 6

**Measuring professionals' perception on blockchain-based futuristic
accounting — 89**

Ashok Bhansali, Jolly Masih, Meenakshi Sharma

Chapter 7

Blockchain 3.0 for sustainable healthcare — 101

Dipesh Vaya, Teena Hadpawat

Chapter 8

Enhanced fingerprint authentication using blockchain — 123

Manish Jain

Chapter 9

Novel feature extraction and classification architecture for emotion recognition using EEG — 131

R. Sandhiya, A. M. Boopika, M. Akshatha, S. V. Swetha, N. M. Hariharan

Chapter 10

Future of fashion industry: sustainable fashion using blockchain — 145

Index — 155