CONTENTS

List of contributors xi
Preface xvii
Abbreviations xxiv
Acknowledgements xxvi

01 E-integrated healthcare supply chains 1

Dr Ying Xie and Dr Liz Breen

Introduction 1

The use of ICT enabled tools in healthcare: Theoretical framework 3

Research methodology 5

Factors influencing e-business use in healthcare supply chains 7

External and internal process integration 10

Discussions of research findings 15

Conclusions 20

References 25

02 Smart technologies 27

Professor Kim P Bryceson and Dr Asif Yaseen

Introduction 27

Mobile computing and social media 28

Internet of Things (IoT) technology 31

Big data in agribusiness 34

Cloud computing 37

Smart packaging and food traceability 38

Blockchain technology and smart food traceability 40

Conclusion 42

References 46

O3 Digital technologies in the professional services industry 51

Georg Juelke

Introduction to human capital inventories 51

Demand forecasting 52

Digital and organizational alignment 54

Digital technologies 55

Big data and data integration 77

Organizational change and strategy 80

Human capital management

and continuous learning 83

Conclusion 87

References 93

04 Implementation of e-health to improve healthcare 97

Wengi Jacintha Hee, Dr Geoffrey Jalleh and Dr Chad Lin

Introduction 97

Electronic health records 98

M-health interventions 103

Concluding comments 105

References 108

05 E-learning in higher education 113

Dr Mark Readman

Introduction 113

E-learning 113

Blended learning 114

A community of practice/inquiry 116

Spaces of participation 118

Conclusions 125

References 125

06 E-government 127

Dr Ozlem Bak

Introduction 127

Layers of e-government 128

E-government and its implications for its stakeholders 134

Conclusion 138
References 142

O7 Cloud technology 145

David Cockayne

Introduction – The use of cloud technology 145 Cloud technology, China and sport – An e-business enabled economic model 149 References 157

O8 Supply chain integration through e-business-enabled enterprise systems 160

Professor Vikas Kumar, Dr John Loonam, Archana Kumari, Professor Jose Arturo Garza-Reyes and Hieu Van Ngo

Introduction 160

The use of enterprise systems in supply chains 162
Assessing the supply chain integration in automobile sector 167
References 180

09 The role of business-to-business (B2B) platforms and their implications on supply chains 185

Dr Ozlem Bak 185

Introduction 185

Evaluating benefits and challenges for B2B 187

Conclusion 191

References 197

10 E-freight 201

Alicja Gajewska and Dr Eric Tchouamou Njoya

Introduction 201

IATA e-freight 202

Benefits of e-freight 204

Requirements for implementation 205

Technology in e-freight 208

Communication between e-freight stakeholders 208

Conclusion 210

References 219

11 E-learning in higher education 221

Dr Ozlem Bak

Introduction 221
E-learning factors influencing student autonomy 227
Conclusion 228
References 233

Index 235